

2000 10 10 10

1000 10 10 10



## Content # 10

- ① Orig. typed copy of notes on squares excavated, South line, Tmc 247
- ② Alidade survey notes, Tmc 247 (typed carbon + handwritten original)
- ③ Tmc 247: square-by-square notes on excavation, consisting of typed carbon and handwritten original for each square
- ④ Table of items recovered (2 typed copies + handwritten original)
- ⑤ "Uncopied Stuff," as follows: contour maps, cross-sections, sketches, expenses, oversize chart, detailed sketch of burial 1



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MacNeish Mexico Notes - 1953-54.

Square N/S Line E 15 of Cave 247.

Kelley, Bonifacio, Juan Montalvo - Feb. 8/54

Level 1 - Level 1 - N 5 E 15 - 47 Mupalis discarded.

Level 2-A - Level 2-A - N 5 E 15 - 32 Mupalis discarded

from Level 3 penetrated 2-B and into 2-A in part of square.

Level 3-B -- Level 2-B --- N 5 E 15

Level 3 --- Level 2-C --- N 5 E 15 --- Vegetable materials.

Level 4 - Gray layer under vegetable and above ash.

Level 5 - Ash level - Now the top and bottom are divided by  
a dark layer - 3 haupalis.

Level 6 - Mottled gray. Charcoal level. It connects with  
Level 7 of N 5 E 15.

Lower levels cemented in.



Square S 5 E 10. Pratt - Juan Gonzalez & Poricarpio Perez.

Level 1 - Gray ashy cave dust containing vegetable material.  
Red-brown soil.

Level 2 - Vegetable Layer #1; in S 1/3 of square subdivided into two approx. 3" sub-levels. 2" and 2" respectively.

27  
Level 2-a - Gray ash between 1st and 2nd veg. layers. This layer becomes considerably indistinct in S 2/3 of square where it was called "2-a equivalent" in spite of its considerable vegetable content, which latter was not quite sufficient to consider it as either part of the 1st Veg. layer or of the 2nd.

Level 3 - Vegetable Layer #2, which because of its depth was arbitrarily divided into two sub-levels for the 2nd S 3rd of square. Each sub-level, 3-a and 3-b respectively, was some 3 - 4 " thick.

Level 4 - Non existent.

Level 5 - White ash which in the 2nd S 1/3 of square was whitish gray and in the final S 1/3 of square white ash and veg. material intermingled with veg. content very high.

Level 6 - Brown layer which in 2nd S. 3rd of square changed from reddish-brown to a veg. layer. This layer did not exist in the final S. 1/3 of square.

Level 7 - Brown layer with white ash as an intermediate lens.  
Present only in 1st E. 1/3 of square as we proceeded S - it extended some 1 1/2' from N. face.

Level 7-a - A pit from Level 7 thru Level 8 to top of 9. It was Ca. 11" diam. around in cross section and U-shaped in vertical section.

Level 8 - Gray ash; in 2nd 3rd of square proceeding S. there seemed to be intrusive material from Level 5 for Level 6 was very patchy - material from this 1/3 of square at Level 8 was marked "Suspect".

8-a and 8-b - in the final S 1/3 of square the Level 8 was subdivided into 2 & 3" sublevels - 8-a and 8-b respectively.

Level 9 - Red-brown-black admixture above rock floor.



MacNeish-Mexico Notes - 1953-54. TM-C-247.

Square S 5 E 5. Feb. 20/54. Don Ignacio Guerra digging.

Level 1 - Level 1-a of S 5.

PH 8  
Level 2 - Top half of 1-2 of S-5. A pit from this level cuts NW corner of square down into white ash (5), which also dips down at NW and becomes thicker, which is 2-a.

Level 2-b - Pit.

Level 3 - Bottom half of 1-2 of S 5 found only in southern half of square S 5 E 5 - second vegetable layer or general Layer 3.

Level 4 - L 3 of S 5, only in southern portion of S 5. A yellow-brown layer Ca. 2" - 3" thick.

Level 5 - The white ash, L 5 of S 5.

Level 6 - Brown layer with vegetable materials.

Level 7 - Yellow ash layer.

Level 8 - Brown layer, L 8 of S 5.

Level 9 - Top of ground or at the junction with it.



MacNeish-Mexico Notes 1953-54. (Cave 247)

Square S 5

General top levels badly pitted in NE and SW corners.

- P-12 Level 1 - Fill above top occupation. - *From pit*
- Level 2 - Top vegetable layer. Small area of it left in Level 2.
- Level 2-a - Dark brown layer over 2nd vegetable - in center of square becomes a white ash up to 1½" thick, vanishing completely in S & E and destroyed by treasure hunters' hole in W. A small powdery gray (or sandy) overlies this and marks a soil change which is all that distinguishes 2 from 3 in S of square.
- Level 3 - Second vegetable.
- Level 4 - Dark layer over ash. (Missing in most all of square.) becomes in a large measure a yellow ash layer in N with few veg. materials.
- beveled?*  
Level 5 - Ash layer. (Pit from Layer 2 cuts into 5 and is resting upon it.)
- Level 6 - Thin brown layer.
- Level 7 - Mixed brown earth and white and gray ash (Corresponds to 7 & 8 of N 5 E 10?)
- Level 8 - A dark brown and gray layer with veg. matter in NE part of square. In NW a lighter gray level lying on rocks. About at junction between 7 and NW 8 were found the two artifacts of Layer 8, but App. in 8.
- Level 9 - The gravel (dark gray).

In the SE corner of the square, Level 6 thins out and disappears. A new dark brown level, starting below the surface of Level 7 supplanting Level 6, which it otherwise resembles. Under a large rock in SEernmost corner of square are traces of a gray vegetable layer starting in Level 7 below new brown layer. Under all these Level 8 was considered to include not only the dark brown layer, as previously, but a yellow ash which included some gravel, but was not a cemented gravel layer (up to 4" thick in places). In the gravelly yellow was found a tanged point. This was at a place directly under the treasure hunters' pit, about 1" or 2" below bottom of their pit. It was apparently safely in position, but intrusion cannot be absolutely excluded. Yellow layer in SE corner bagged as 3 may actually correspond to 4, consolidated brown layer.



Square S 5 W 5

019+10  
General - Large rock occupies most of west of square. Eastern section and northern section are cut by two separate treasure hunters' holes. Some of bottom levels remained undisturbed and a possible fraction of the vegetable layers above on the north face of the square.

Level 1 - A thick gray layer was piled up against rock formerly up to Ca. 10" in the highest spot, but covering very little of the surface.

2  
Level 2 - A brown layer up to Ca. 6" thick formed a little lens, sloping to nothing in NW where gray layer was thickest. This corresponded to W 5 L 1-a. L 1-b was so thin as to be nearly indistinguishable here.

Level 3 - First vegetable layer. Petate was lying in this, largely covered by L-2, here less than  $\frac{1}{2}$ " thick.  
Corresponds to L-2 and L-3 of S 5.

Level 4 - Brown layer. Corresponds to L-7 of S 5. From the bottom of this, apparently, pit goes down to 2nd petate.

All materials treated as surface finds. as extent of treasure hunters' penetration became more apparent.



MacNeish-Mexico Notes - 1953-54 - TM-C-247.

Square S 10 E 10.

Level 1 - Ash and refuse over first vegetable.

Level 2 - Top Veg. layer.

Level 3 - This is probably the third veg. layer, but it is very indistinct.

In SE, the vegetable layers become more distinct.  
L 5 becomes very indistinct and more yellow, between  
2 rd-brown layers. L 5 and L 4 are both absent in SW.

Level 3-a - Vegetable, indistinct from above.

L-4 - Red brown layer.

Level 5 - Ash - white.

Level 6 - Brown-red.

Level 7 - White ash averaging some 3" thick.

Level 8 - Red-brown over rock.

In the SE a gray, soft vegetable layer comes in under  
L.8 - bagged with L. 8.

Note - In 2nd and 3rd of of square moving S Levels  
3, 3-a and 5 were somewhat mixed, because these levels rapidly  
narrowed in thickness. Bag containing this mixed material  
is marked "Mix Levels 3, 3-a and 5".



Square S 10 E 5.

Level 1 - Top loose fill down to first vegetable.

Level 2 - Top Vegetable.

Level 3 - Lower "

Level 5 - Ash.

Level 6 - Brown layer.

Level 7 - Yellowish ash.

Level 8 - Brown on yellow ground.



Square S-10

First we removed treasure hunters' refuse in NE corner with Level 1 includes part of first vegetable area.

Level 2 - Probably second vegetable.

Level 3 - Vegetable layer sinks into ash layer from second veg.

Level 5 - Ash only on east side of square.

Level 6 - Brown layer underlying ash as well as yellow soil under it.

Level 7 - Lowest brown.

Level 8 - Reddish brown at junction of gravel.

Level 9 - Gravel.



MacNeish Mexico Notes - 1953-54. (Cave 247)

Square S 10 W 5.

General - This is a badly destroyed square, due to pot-hunters.  
Almost all top levels are missing.

Level 1 - Top 6" of vegetable on east side.

Level 2 - 6" to 12" of veg. on east side. Nothing in it.

Level 3 - Vegetable layer (6")

Level 4 - Vegetable layer (6")

Level 5 - Seems to be ash.

Level 6 - Brown soil.



MacNeish-Mexico Notes - 1953-54 - TM-C-247.  
Square S 15 E 15.

Kelley - Feb. 25/54.

The first vegetable layer (L 2 of S 10 E 10) thins out and rises nearly to surface. Level 1 and Level 2 together are here nowhere more than 2" thick.

Level 3 - Vegetable layer  
Level 3-a Vegetable layer) Arbitrarily divided in half below  
S 10 E 10. Pipe found in L. 3.

Level 4 - Brown layer, intermediate yellow layer, and lower brown layer (latter corresponding to L 4 in most of S 10 E 10). Found only in S. of square as it is cut by a pit from 3-a in N. of square.

Oct 15 Level 5 - White ash layer. Contained a pit with animal skin and rope on grass bedding.

Level 6 - Thin brown layer - no artifacts.

Level 7 - Yellowish brown layer.

Level 8 - Brown burnt vegetable layer overlying unburned gray vegetable material (all L. 8).

Square only half completed.



Square S 15 E 10 ?

Level 1 - Top fill over first gegetable.

Oct 17 Level 2 - Gray ash of pit.

Level 3 - Veg. under pit.

Oct 17 3-a - Ash under pit.

Level 5 - Ash - nothing in it.

Level 6 - Brown layer under pit. This divided into 2 brown layers.

Level 7 - Yellow brown layer.

Level 7-b - Ash layer.

Level 8 - Dark layer.

Level 4 - is a floor just below veg. layer (Level 3), that comes in south  $\frac{1}{2}$  of square. However, it is really below 5, which does not appear in that particular sector.



MacNeish-Mexico Notes - 1953-54. (Cave 247)

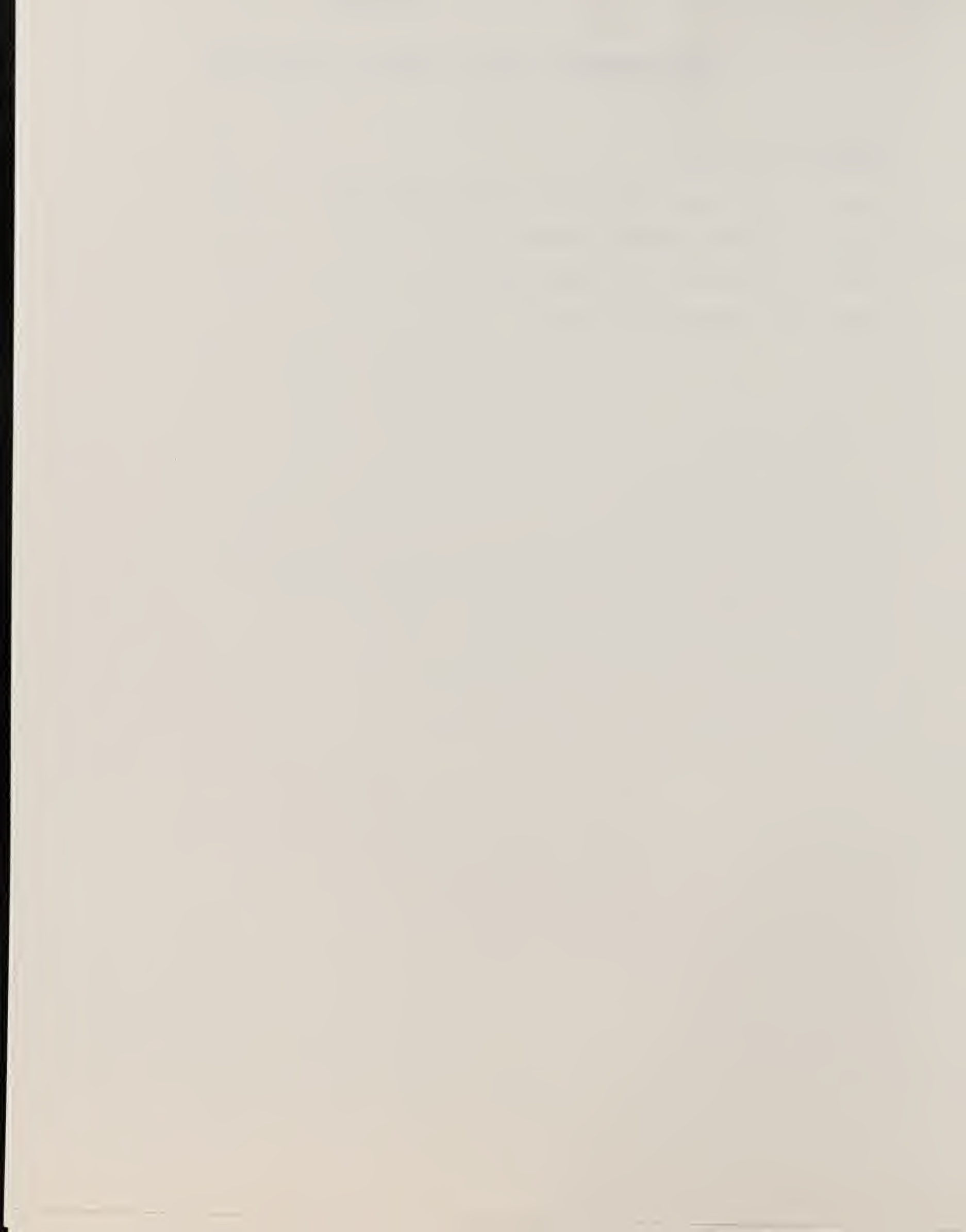
Square S 15 - E 5.

Level 1 - Top loose dirt down to first vegetable.

P2 19 Level 2 - First vegetable layer.

Level 3 - Pit from first Vegetable.

Level 3-a - Bottom part of pit.



Square S 15

Level 1 - This was the top vegetable on east side and the fill on the west side.

Level -2 - It is overlaid by ash. In south this is a thin black or brown line that grows into a vegetable in NW overlaid by ash in south east.

Level 2-b - Again - this is a thin level to south.

Level 3 - Big vegetable layer over ash to north and south.

0.19 Level 3-a - Lower part of Layer 3. Large pit in west centre part.

Level 4 - To south small ash layer separate this vegetable from 3, in the middle 3 and 4 blend together, while in the north Level 4 becomes a dark brown layer (Level 6 of outside levels) overlaid by ash.

Level 5 - Ash, one brown floor.

Level 6 - Gray ash with brown.

Level 7 - Dark gray.

Level 8 - Dark brown in rocks in fron.

Level 9 - Dark under rock.

Level 10 - Ash over carbon.

Level 11 - Gravel.



MacNeish-Mexico Notes - 1953-54.

Square S 15 W 5 of Cave 247.

Level 1 - This is the first vegetable layer down to ash.

Level 2 - This includes an ash layer and a brown layer  
overlying a vegetable layer.

Oct 13

*Level*

*no grass pt. below from it*



MacNeish-Mexico Notes 1953-54. TM-C-247.

Square S 20 E 10

- Level 1 - Top loose dirt in north half of square.
- Level 2 - This is a loose gray ash vegetable layer.
- Level 3 - This is the lower six inches of what appears to be the same vegetable layer.
- Level 4 - First brown layer under ash below vegetable.

PJ 23 Level 9



MacNeish-Mexico Notes - 1953-54. (Cave 247)

Square S 20 E 5.

General - Badly pitted.

Level 1 - Loose fill to north.

Level 1-A - Good strata in situ to south.

Level 2 - Second vegetable layer.

Level 3 - Vegetable sloping downward to north.

Level 4 - Thick vegetable to north, but thin to south.

Level 5 - Ash over vegetable to south and brown to north.

Level 6 -



Square S 20

Feb. 21/54.

General - This square has been disturbed. Pits on 3 sides.

Level 1 - Fill and veg. strata over front only.

Level 2 - Ash overlying veg. layer or dark brown layer.

Level 3 - Ash overlying veg.

Level 4 - Ash overlying veg.

Level 5 - Ash over brown

Level 6 - Ash over brown.

Level 7 - Mottled yellow gray ash.

Level 8 - Brown soil underlaid by brown layer.

Q127 Level 9 - Brown soil underlaid by charcoal.- *hole put into rock*

Level 10 - Brown soil down in rocks going to a depth of 4'2"  
below the surface where the base of a Nogales Round  
Base occurred.



MacNeish-Mexico Notes - 1953-54.

Square S 20 W 5 of Cave 247

General - Only the west corner of this had been disturbed.

Level 1 - This included surface dust down through the first vegetable layer.. Discarded 157 pieces of grass, 14 palmeto leaves and 168 yapiya (Tuna leaves).

Level 2 - Ash with underlying brown soil which was underlaid by a vegetable layer - ash and brown soil pinch out to the south. 334 gapaya (Tuna leaves), 214 palm leaves and 6 handfulls of grass were discarded

Level 3 - This included more ash over the 3rd layer of vegetable material. 34 plam leaves and 82 Tuna leaves were discarded. Pit extends from this under Stake S 15 W 10 as well as from S 20 W 5.

Level 4 - Brown and ash thru a vegetable layer badly burned 24 pieces of palm and 51 Tuna discarded, as well as grass. A pit (5) extended from it ... S 15 W 5.

Level 5 - This is an asg grey layer that blends into a white ash underneath by brown with carbon bottom. White ash became 5-A. 10 Tuna discarded.

Level 6 - Mottled gray charcoal overlying brown thin layer. Found an Abasola Triangular in brown (6-A).

Level 7 - In west part of the square this was a layer in and around rock. It was mainly yellow-white ash.

Level 8 - Dark brown. In center of square this is around the rocks. This has vegetable under it.

Level 9 - Dark brown with a vegetable layer under. Lies on rock in center of square. Does not appear to west.



Square S 25 W 5

General - This level is relatively undisturbed, though the top has been piled on by the looting in Square S 25.

Level 1 - Top layer of vegetable and undoubtedly included discarded material from adjacent square.

Level 2 - A top thin layer of ash overlies a brown layer that blends into a veg. layer. The top ash, however, gets thicker to the south.

Level 3 - A thin layer of ash that changes to mottled ash over veg.

Level 4-a - Ash and dark brown. This was the top of Layer 4 in S 20 W 5.

Level 4-b - Vegetable layer. This is quite thick and full of feces and wads of grass roots.

Level 5 - Gray ash overlying a brownish black. that turns to veg.

Level 6 - Mottled white and gray over veg. and brown.

Level 7 - Gray ash.

Level 8 - Brown with veg.

Level 9 -

S25

S-5, 21 - Cotton cloth



Square S 30

General - This square slopes down under the back wall of the cave.  
Levels in south half are completely mixed.

Level 1 - Top refuse in first half.



Square S 30

Feb. 28 - Mar. 1/54 - Kelley.

Bagged with S 25.

2 Arrow shafts from Level 1. One from levels disturbed by treasure hunters, the other in vegetable layers.

White ash above Level 3 vegetable becomes a brown, fine earth and distinction between 2 and 3 becomes faint in NW of square.



Square S 30 W 5

Level 1 - Top vegetable layer overlaid by loose brown sand.

Level 2 - Ash overlying a thin brown layer sometimes containing vegetable materials.

Level 3 - Ash overlying another brown layer. A pit appears to go down from this layer, but it may be from 2.

P46 Level 4-a - Ash over layer of veg.-pit from this layer.

Level 4-b - Layer of veg. in same place under yellow soil

Level 5 - More vegetable layer overlaid sometimes by ash.

Level 6 - is a thin layer of ash overlying brown floor.

Level 7 - Gray ash.

Level 8 - Floor of veg.

Level 9 - Way down in rocks.

In the back of the square Level 2, 3 and 4 blend into a large layer of ash and were bagged accordingly.



MacNeish-Mexico Notes - 1953-54.

Square W-5 of Cave 247.

General -

- Level 1 - This is a thick level of red-brown soil.
- Level 2 - This is the top sand layer, going down to the first vegetable layer - equivalent to the top vegetable further east.
- Level 3 - Vegetable layer overlying ash - there is no compact layer above the ash.
- Level 4 - Ash layer - same as Level 5 to the east. Gets very thin and slumps downward to the west but is quite thick to the east.
- Level 5 - Red-brown soil (equivalent to Level 6 to the east).
- Level 6 - Red-brown line exists only in south one foot (vegetable layer further east).
- Level 7 - Mottled gray -(Mainly under rocks - correlate with . . . of other refuse.)

Some vegetable materials and bone from either Level 6 or 7, separated vertically, not horizontally, in part of square.

There actually is a small burned layer under part of Level 6 - that is probably the vegetable layer - Level 7 on northward.

In SW corner of square, Level 1 was divided into a reddish-brown layer above (1-A) and a grayer layer found over most of the square (1-B)



Square S 5 E 15.

General - Near edge of cliff and lower levels pinch out to the east.

Level 1 - This is the top 3 or 4 inches of loose, probably disturbed soil.

Level 2 - This is the top vegetable layer.

Level 3 - Lower vegetable layer down to ash, which is usually 3 or 4 veg.

Level 5 - Ash - pinches out to the east. *has pit along rock wall all along the way*

Level 6 - This is red soil below ash - disappears to east.

Level 7 - Lower reddish floor - disappears to east.

6.5.13



MacNeish-Mexico Notes - 1953/54.

Square E 5 - Cave 247.

Grant

General - This is an undisturbed square, more or less flat on top.

Level 1 - This level was mainly ash and vegetable mixed in no regular strata. It was thin to the north and got thicker near the center. 33 Huapillus discarded.

Level 1-A - Small ash area in NW corner. Nothing in it.

Level 2 - This was of vegetable, on the north edge not separate from the one below it. However, as we dug southward it was noticeably separate and underlaid by ash and refuse that was included in the level. The vegetable slopes downward toward the north. Discarded - 66 huapillus, 4 palms, 7 handfulls of grass.

Level 3 - Vegetable layer sloping NE overlying ash.  
Discarded - 62 huapillus, 4 plams, 7 handfulls of grass.

Level 4 - Vegetable layer sloping NE, overlying ash.  
Discarded - 80 huapillus, 1 handfull of grass.

But Level 5 - Ashes of large fire, sloping SW. 3 sherds only.

Level 6 - Earth and a little vegetable layer, nearly level.

Level 7 - Level vegetable layer. Discarded 12 huapillus, 2 palms, 2 handfulls of grass.

Level 8 - Red soil with boulders.

Level 9 - Gravel to rock.



MacNeish-Mexico Notes 1953-54. (Cave 247)

Square 0 - 0

Level 1 - Top vegetable layer.

Level 2 - Second vegetable layer.

Level 3 - White ash layer (Level 5 of adjacent squares).

Level 4 - Brown ash layer. This is disturbed nearly to bottom by treasure hunters. Little left.

Disturbed mats, bagged as 0 - 0 Surface, not as Level 1.



MacNeish-Mexico Notes - 1953-54.

Square E 10 of Cave 247.

General - This is an in-between square - easy to dig.

Level 1 - Brown-reddish soil above top vegetable. This is a very thick layer and is almost ready to be subdivided but there seems to be no true differences in it.

Level 2 - This is a very clear vegetable layer to the west but rather poorly defined to the east. Also the the west it often has a layer of ash under it.

Level 3 - This is the lower vegetable layer and for the most part overlays the ash.

Level 4 - Is a small compact layer.

Level 5 - The ash.

Level 6 - This is red-brown soil that along the south east corner dips down.

Level 7 -

Level 8 - Mottled gray.







MacNeish-Mexico Notes - 1953-54.

Alidade Survey Notes of TM-C-247 on February 5, 1954.

H.I. - 4:4" (\* used as equals)

1	9.6	9.3 to 9.9 $\frac{1}{2}$ *	6 $\frac{1}{2}$ * 6.50 *	54.2
2	8.9 $\frac{1}{2}$	6 $\frac{1}{2}$ - 12 $\frac{3}{4}$ *	6 $\frac{1}{2}$ *	54.2
	8.9	8.6 $\frac{1}{2}$ - 8.9		
N 5 E 15	8.8 $\frac{1}{2}$	6 - 11 *	50.0 * 50.0	41.3/12
N 5 E 10	7.10 $\frac{1}{2}$	8 - 12 *	40.0 42.5	35.5/12
N 5 E 5	7.5	6-1/3 - 3	37.5	31.3/12
-- In hole	10.6 plus or minus			
N 5	8.10	11.5 - 8.6/12	34.9	25.9/12
N 5 W 5	8.7 $\frac{1}{4}$	5 $\frac{3}{4}$ - 8 $\frac{1}{2}$	27.5	22.11/12
N 5 W 10	7.5 $\frac{1}{2}$	4 $\frac{1}{2}$ - 6-3/8	21.2	17. $\frac{1}{2}$
N 5 W 20	7.7 $\frac{1}{2}$	8 $\frac{1}{2}$ - 6 $\frac{3}{4}$	15.0	12. $\frac{1}{2}$
Cliff Wall	6.4-7/8	4 - 5 $\frac{3}{4}$		
Cliff Wall	10.4	2 $\frac{3}{4}$	27.5	23
(Ea. 3' out $\pm$ 1' down to edge)				
E 10	6.8 $\frac{1}{4}$	6.25 - 10.75 *	4" x 100*400	33.4/12
E 5	7.8	6.25 - 9.75 6.25	35.0	29.1/60
E 6"	8.0	5.75		
O-O	8.4 $\frac{1}{4}$	2.75	30.0	25
W 4	8.4			
W 5	7.6 $\frac{3}{4}$	8.00 5.75 <u>2.25</u>	22.5	18.9/12
W 10	6.6-7/8	7.50 5.75 <u>1.75</u>	43.7 $\frac{1}{2}$ 32.5 <u>12.5</u>	12.5 10.5/12
West Wall	4.3-7/8			







MacNeish-Mexico Notes - 1953-54.

Alidade Survey Notes of TM-C-247 on Feb. 5/54 (Con.)

N 5 E 10	8.5	8.7 - 8.3 * 4" x 100 * 40.0 *	33.4/12
N 5 E 5	8.4 $\frac{1}{2}$	6 $\frac{1}{2}$ - 2 $\frac{1}{2}$ * 3.75 x 100 * 375 *	31. $\frac{1}{4}$
N 5 E 0	7 $\frac{1}{2}$	27.5 *	23
N 5 W 5	7.6	21.0	17
N 10 E 10	6.3 $\frac{1}{2}$	40.0	35.5
N 10 E 5	6.6 $\frac{1}{2}$	8.00 4.75 <hr/> 3.25	32.5 27
N 10	7.2	3.50 .75 <hr/> 2.75	23
N 10 W 5	6	21.2	18
N 10 W 10	6. $\frac{1}{2}$	20.0	17
N 15 E 10	6.7 $\frac{3}{4}$	40.0	35
N 15 E 5	6.5 $\frac{3}{4}$	7.25 3.87 <hr/> 3.38	28
N 15	6.10 $\frac{1}{4}$	11.75 9 <hr/> 2.75	22.8
N 15 W 5	5.7	22.5	17
N 20 E 5	5.4		
N 20	5.10		
N 20 W 5	5.4		
N 25 W 5	5.2		
N 25 W 10	4.10		
N 25	5		
N 25 E 5	5		







1 - 4 - 4'

1 — 2.6 —  $4 \times 2.6 = 10.4 = 10.4 \times 54.2 = 54.2$

2 — 7' 9" —  $8 \times 9 = 72 = 72 \times 54.2 = 3902.4$

NSE15 8' 8" —  $6 \times 11 = 66 = 66 \times 54.2 = 3577.2$

NSE10 7' 10" —  $8 \times 12 = 96 = 96 \times 54.2 = 5203.2$

NSE5 7' 5" —  $6 \times 13 = 78 = 78 \times 54.2 = 4227.6$

N5 8' 10" —  $4.5 \times 18 = 81 = 81 \times 54.2 = 4390.2$

NSEW5 3' 7.5" —  $5 \times 3 = 15 = 15 \times 54.2 = 813$

NSW10 7' 5" —  $4 \times 6 = 24 = 24 \times 54.2 = 1300.8$

NSW20 7' 7.5" —  $8 \times 3 = 24 = 24 \times 54.2 = 1300.8$

cliff wall 6' 4" —  $4 \times 5 = 20 = 20 \times 54.2 = 1084$

cliff wall 10' 4" —  $2 \times 4 = 8 = 8 \times 54.2 = 433.6$

Can. 3' 0" + 1' 0" = 4' 0" —  $4 \times 100 = 400 = 400 \times 54.2 = 21680$

E10 — 6' 8" —  $6.25 \times 10.75 = 67.1875 = 67.1875 \times 54.2 = 3642.5625$

E5 — 7' 8" —  $6.25 \times 9.75 = 60.9375 = 60.9375 \times 54.2 = 3302.8125$

E0 — 8' 0" —  $5.75 \times 8 = 46 = 46 \times 54.2 = 2495.2$

W4 — 7' 4" —  $2.25 \times 8.4 = 18.9 = 18.9 \times 54.2 = 1024.38$

W5 — 7' 6" —  $8 \times 0.25 = 2 = 2 \times 54.2 = 108.4$

W10 — 6' 5" —  $7.5 \times 0.25 = 1.875 = 1.875 \times 54.2 = 101.625$

W20 — 4' 3" —  $5.75 \times 0.25 = 1.4375 = 1.4375 \times 54.2 = 77.9125$

NSE10 8' 5" —  $8 \times 7 = 56 = 56 \times 54.2 = 3035.2$

NSE25 9' 4" —  $6 \times 4 = 24 = 24 \times 54.2 = 1300.8$

NSE0 7' 1" —  $2 \times 1 = 2 = 2 \times 54.2 = 108.4$

NSW5 7' 2" —  $2 \times 1 = 2 = 2 \times 54.2 = 108.4$







U10 E 10 — 6 3 1/2

N10 E 5  
N 10

6 6 1/4

7' 2"

400

355

1000  
425  
325

325 — 27

350  
100  
250

23

N10 W 5

6

262

12

N10 W 10

6 1/2

200

1

N15 E 10

6 2 3/4

400

15

N15 E 5

6 5 3/4

723  
337  
386

28

N15

6 10 1/4

1125  
9  
225

228

N15 W 5

5 7'

225

17

N20 E 5

5' 4"

N20

5' 12"

N20 W 5

5' 4"

N15 W 5

5' 2"

N 23 W 10

4' 10"

N 23

5

N 23 E 5

5











Ciudad Victoria, March 13, 1954.

MacNeish-Mexico Notes of 1953-54.

List of write-ups on Squares in TM-C-247,  
Canyon Infiernillo.

First copies are on a loose-leaf binder.

Second Copies and original notes are tied up in a bundle.

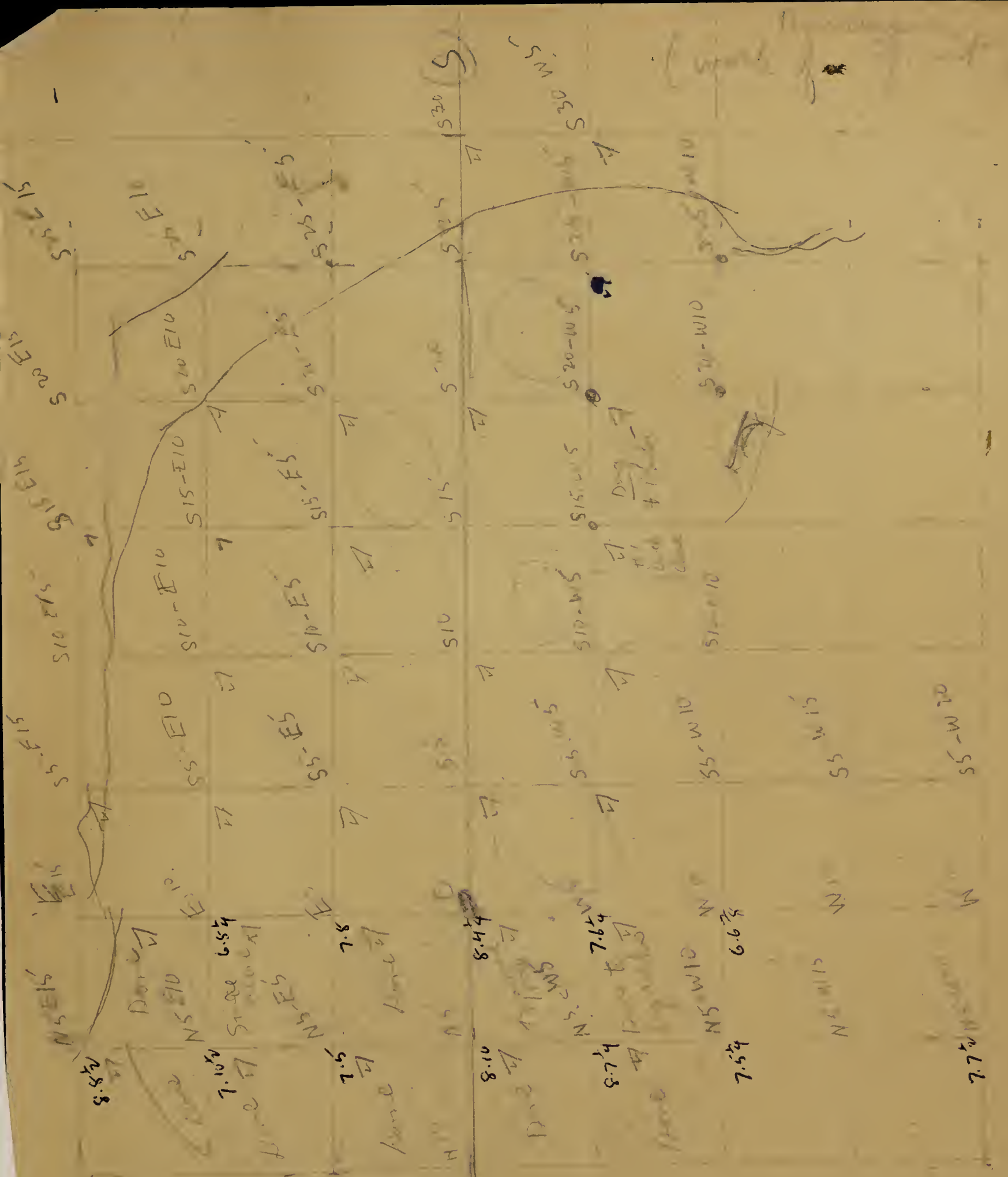
List.

N 5 E 15	S 10 E 10
" E 10	" E 5
" E 5	" E 0
" E 0	" W 5
" W 5	
	S 15 E 15
O - E 15	" E 10
" E 10	" E 5
" E 5	" E 0
" E 0	" W 5
" W 5	
	S 20 E 10
S 5 E 15	" E 5
" E 10	" E 0
" E 5	" W 5
" E 0	
" W 5	S 25 W 5
	S 30 E 0
	" W 5









15  
 H.T. 4.4"

1891





Square W-5 of Cave 247.

General -

- Level 1 - This is a thick level of red-brown soil.
- Level 2 - This is the top sand layer. going down to the first vegetable layer - equivalent to the top vegetable further east.
- Level 3 - Vegetable layer overlying ash - there is no compact layer above the ash.
- Level 4 - Ash layer - same as Level 5 to the east. Gets very thin and slumps downward to the west but is quite thick to the east.
- Level 5 - Red-brown soil (equivalent to Level 6 to the east).
- Level 6 - Red-brown line exists only in south end foot (vegetable layer further east).
- Level 7 - Bottled gray -(Mainly under rocks - correlate with . . . of other refuse.)

Some vegetable materials and bone from either Level 6 or 7, separated vertically, not horizontally, in part of square.

There actually is a small burned layer under part of Level 6 - that is probably the vegetable layer - Level 7 on northward.

In SE corner of square, Level 1 was divided into a reddish-brown layer above (1-A) and a grayer level found over most of the square (1-B)







Square S 5 E 15.

General - Near edge of cliff and lower levels pinch out to the east.

Level 1 - This is the top 3 or 4 inches of loose, probably disturbed soil.

Level 2 - This is the top vegetable layer.

Level 3 - Lower vegetable layer down to ash, which is usually 3 or 4 veg.

Level 5 - Ash - pinches out to the east.

Level 6 - This is red soil below ash - disappears to east.

Level 7 - Lower reddish floor - disappears to east.

THEORY OF THE EARTH'S CRUST

CHAPTER I

1. The Earth's crust is the uppermost layer of the Earth, which is solid and rigid. It is the part of the Earth that we live on and which supports all the life on the planet. The crust is composed of various rocks and minerals, and its thickness varies from about 5 km to 70 km. The crust is divided into two main parts: the upper crust and the lower crust. The upper crust is the part of the crust that is closer to the surface, and it is composed of various rocks and minerals. The lower crust is the part of the crust that is deeper, and it is composed of various rocks and minerals. The crust is also divided into two main types: continental crust and oceanic crust. Continental crust is the type of crust that is found on continents, and it is composed of various rocks and minerals. Oceanic crust is the type of crust that is found in the oceans, and it is composed of various rocks and minerals. The crust is also divided into two main layers: the upper crust and the lower crust. The upper crust is the part of the crust that is closer to the surface, and it is composed of various rocks and minerals. The lower crust is the part of the crust that is deeper, and it is composed of various rocks and minerals. The crust is also divided into two main types: continental crust and oceanic crust. Continental crust is the type of crust that is found on continents, and it is composed of various rocks and minerals. Oceanic crust is the type of crust that is found in the oceans, and it is composed of various rocks and minerals.





1 m C 247

S 5 E 15

Note 1st  $\frac{1}{3}$  of square moving E.

Level 1 = (35 huapilla\*) (gray ash d. & rd. brn layer)

Level 2' = Top half of first veg. layer - this sublevel  
C. 4" thick.

Level 2'' = lower half of first veg. layer - C. 4" thick

Level 2a = Gray ash & veg. mat.

Level 3 = Veg layer #2

\* For the other levels huapilla counts were noted on tags within bags for the respective levels.

1 m C 547  
2 R E 12

note

Level 1 = 22 (approx. 1/2 m) (approx. 1/2 m) (approx. 1/2 m)  
Level 2 = Top half of first set.  
Level 3 = 22 (approx. 1/2 m) (approx. 1/2 m) (approx. 1/2 m)  
Level 4 = 22 (approx. 1/2 m) (approx. 1/2 m) (approx. 1/2 m)  
Level 5 = 22 (approx. 1/2 m) (approx. 1/2 m) (approx. 1/2 m)

\* To the other level (approx. 1/2 m)  
approx. 1/2 m (approx. 1/2 m) (approx. 1/2 m)  
approx. 1/2 m (approx. 1/2 m) (approx. 1/2 m)  
approx. 1/2 m (approx. 1/2 m) (approx. 1/2 m)





General near edge of cliff and lower levels  
punch out to the east

Level 1 - This is the top 3 or 4 inches of hard  
probably disturbed soil

Level 2 - This is the top vegetable layer which  
is usually 3 or 4 in.

Level 3 - Lower vegetable layer down to ash

Level 5 - Ash - punches out to the east

Level 6 - This is ash soil below ash - disappears to east

Level 7 - Lower redish floor - disappears to east







Square S 5 E 10. Pratt - Juan Gonzalez & Poricarpio Perez.

Level 1 - Gray ashy cave dust containing vegetable material.  
Red-brown soil.

Level 2 - Vegetable Layer #1; in S 1/3 of square subdivided into two approx. 3" sub-levels. 2" and 2" respectively.

Level 2-a - Gray ash between 1st and 2nd veg. layers. This layer becomes considerably indistinct in S 2/3 of square where it was called "2-a equivalent" in spite of its considerable vegetable content, which latter was not quite sufficient to consider it as either part of the 1st Veg. layer or of the 2nd.

Level 3 - Vegetable Layer #2, which because of its depth was arbitrarily divided into two sub-levels for the 2nd S 3rd of square. Each sub-level, 3-a and 3-b respectively, was some 3 - 4 " thick.

Level 4 - Non existent.

Level 5 - White ash which in the 2nd S 1/3 of square was whitish gray and in the final S 1/3 of square white ash and veg. material intermingled with veg. content very high.

Level 6 - Brown layer which in 2nd S. 3rd of square changed from reddish-brown to a veg. layer. This layer did not exist in the final S. 1/3 of square.

Level 7 - Brown layer with white ash as an intermediate lens.  
Present only in 1st E. 1/3 of square as we proceeded S - it extended some 1 1/2' from N. face.

Level 7-a - A pit from Level 7 thru Level 8 to top of 9. It was Ca. 11" diam. around in cross section and U-shaped in vertical section.

Level 8 - Gray ash; in 2nd 3rd of square proceeding S. there seemed to be intrusive material from Level 5 for Level 6 was very patchy - material from this 1/3 of square at Level 8 was marked "Suspect".

8-a and 8-b - in the final S 1/3 of square the Level 8 was subdivided into 2 & 3" sublevels - 8-a and 8-b respectively.

Level 9 - Red-brown-black admixture above rock floor.

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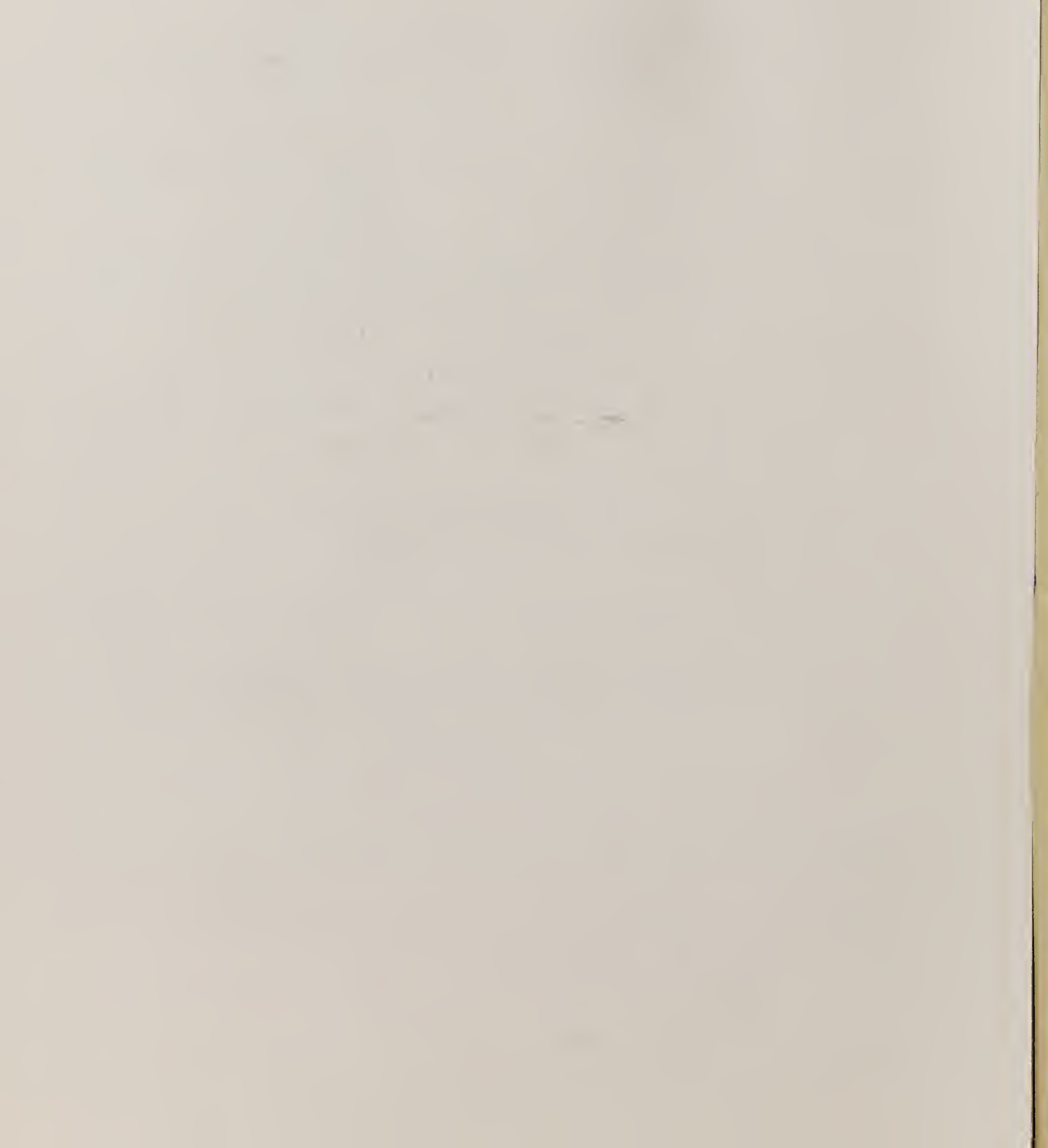
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Tm C 247

SSE 10

Pratt assisted by Juan Gonzalez &  
Porcancio Perez

- Level 1 { Grey ashy cave dust containing veg. material.  
Red-brown soil
- Level 2 Vegetable layer #1 in S.  $\frac{1}{3}$  of square subdivided into two approx. 3" <sup>sub-</sup>levels 2' and 2" respectively.
- Level 2a Grey ash between 1<sup>st</sup> and 2<sup>nd</sup> Veg. layers. This layer becomes considerably indistinct in S.  $\frac{2}{3}$  of square where it was called "2a equivalent" in spite of its considerable vegetable content, which <sup>latter</sup> was not quite sufficient to consider it as either part of the 1<sup>st</sup> Veg. layer or of the 2<sup>nd</sup>.
- Level 3 Vegetable layer #2, which because of its depth, was arbitrarily divided into two <sup>sub-</sup>levels for the 2<sup>nd</sup> S.  $\frac{1}{3}$  of square. Each sub-level, 3a & 3b respectively, was some 3-4" thick.
- Level 4 Nonexistent
- Level 5 White ash which in the 2<sup>nd</sup> S.  $\frac{1}{3}$  of square was whitish grey and in the ~~2<sup>nd</sup>~~ final S.  $\frac{1}{3}$  of square white ash & veg. material intermingled with veg. content very high.
- Level 6 Brown layer which in 2<sup>nd</sup> S.  $\frac{1}{3}$  of square changed from reddish brown to a Veg layer. This layer did not exist in the final S.  $\frac{1}{3}$  of square
- \* Level 7 Brown layer with white ash as an intermediate lens. Present only in 1<sup>st</sup> S.  $\frac{1}{3}$  of square as we proceeded S. - It extended some  $1\frac{1}{2}'$  from N. face

7a - a pit from level 7 thru level 8 to top of 9. It was c. 11' diam, round in cross section and U shaped in vertical section.

Level 8 Grey ash is in 2nd 3rd of square proceeding S. there seemed to be intrusive material from level 5 for level 6 was very patchy - material from this  $\frac{1}{3}$  of square at level 8 was marked "suspect".

8a) - in the final  $\frac{1}{3}$  of square the level 8  
8b) was subdivided into 2 c. 3" sublevels  
8a and 8b respectively.

Level 9 Red-brown-black ash mixture above rock floor





Tm C 247

"SSE 10"

"2a equivalent"

C. 6" in depth. Tho'

this level is strictly ~~below~~  
the non-vegetable layer  
between 1<sup>st</sup> & 2<sup>nd</sup> veg. layers,  
in this layer about 2 $\frac{1}{2}$ ' in

from N. side of square  
the 1<sup>st</sup> & 2<sup>nd</sup> veg. layers blend.  
~~merge~~. However a 6"

layer approximating 2a  
in width and contour placement  
was followed as "2a equivalent"

Level 8 overlies rock & orange  
(L. 10)  
soil by and large tho'.

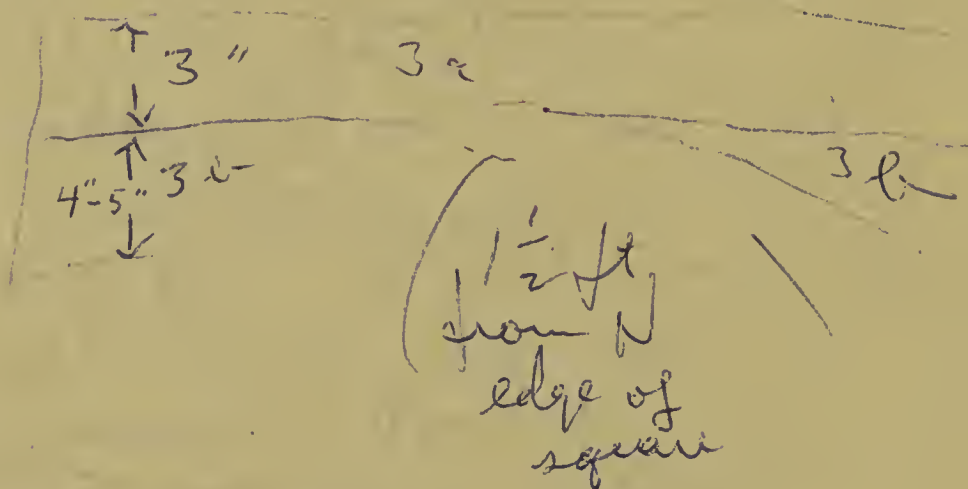
Black soil (L. 9) occurs on  
W. & E. peripheries over  
orange. ~~in small patches~~.

One bag of this material  
is marked suspect and  
~~may~~ since level 6 was

patchy there may have been  
a pit from L. 5 extending  
there to the rock bed.

SSE10

3<sup>rd</sup> and 4<sup>th</sup> layer  
 "Arbitrary division" 3a  
 3b



Final 3<sup>rd</sup> of SSE10  
 1<sup>st</sup> Veg. layer (to 2)  
 divided into two 3<sup>rd</sup> arbitrary levels

## Level 9

They appeared in  
 2<sup>nd</sup> 3<sup>rd</sup> of square mixing  
 3 it comprised a some  
 4" layer directly  
 overlying heavy rock  
 in final 3<sup>rd</sup> of square  
 Brown black









Tm C 247

35 E 10

Level 8

Greyish Ash

which directly  
overlies orange  
layer ~~and~~

directly overlying  
heavy rock







MacNeish-Mexico Notes - 1953-54. TM-C-247.

Square S 5 E 5. Feb. 20/54. Don Ignacio Guerra digging.

Level 1 - Level 1-a of S 5.

Level 2 - Top half of 1-2 of S-5. A pit from this level cuts NW corner of square down into white ash (5), which also dips down at NW and becomes thicker, which is 2-a.

Level 2-b - Pit.

Level 3 - Bottom half of 1-2 of S 5 found only in southern half of square S 5 E 5 - second vegetable layer or general Layer 3.

Level 4 - L 3 of S 5, only in southern portion of S 5. A yellow-brown layer Ca. 2" - 3" thick.

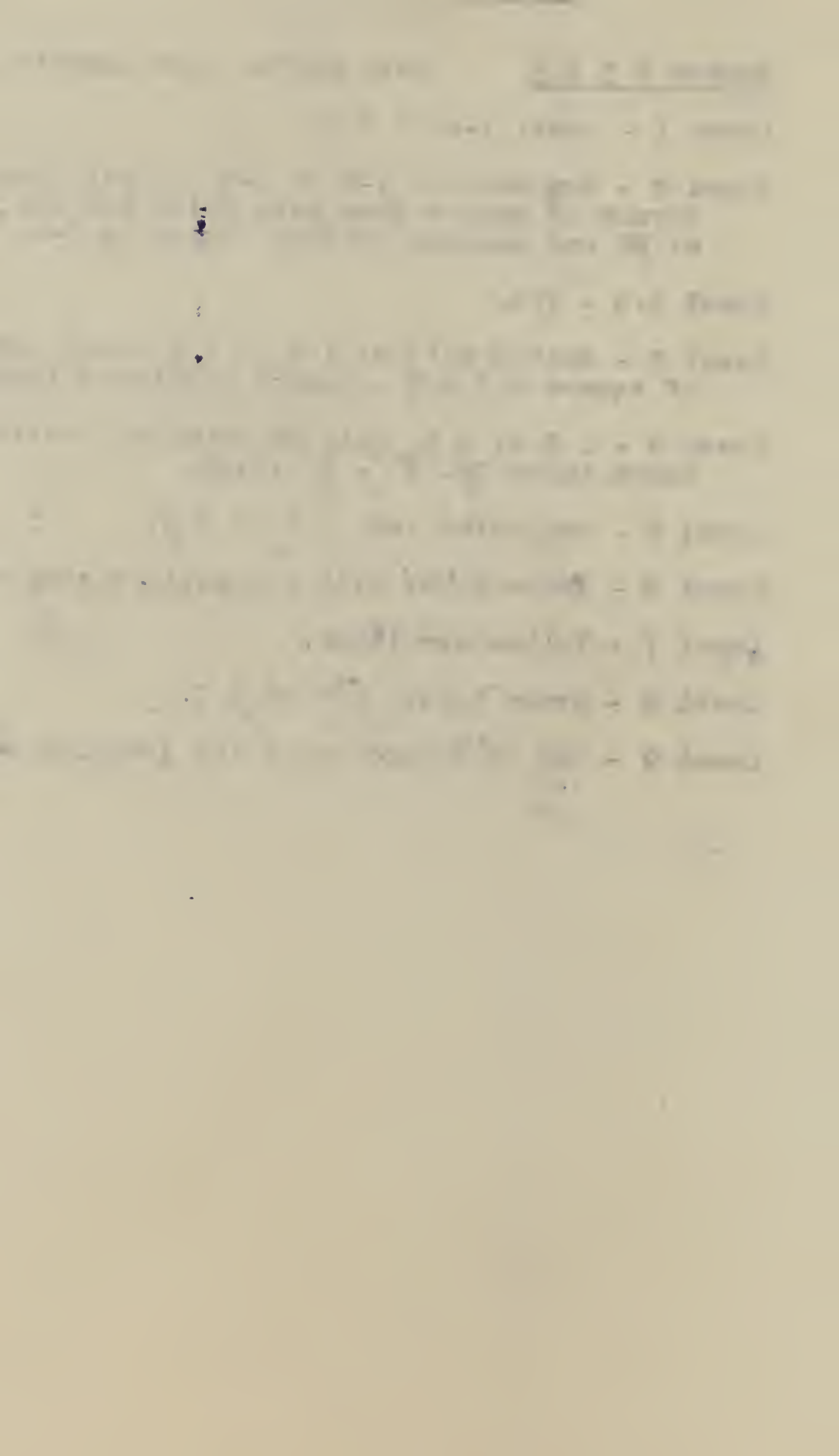
Level 5 - The white ash, L 5 of S 5.

Level 6 - Brown layer with vegetable materials.

Level 7 - Yellow ash layer.

Level 8 - Brown layer, L 8 of S 5.

Level 9 - Top of ground or at the junction with it.







TMC 247 S5 E5

Sunday 20 Feb. 54

D. Ignacio digging.

L1 = L1a of S5

L2 = Top half of L2 of S5. A pit from this level cuts NW corner of square down into white ash<sup>(5)</sup> which also dips down

at NW and becomes thicker <sup>which is 2a</sup> ~~at NW~~ and becomes thicker <sup>of S5</sup> ~~at NW~~   
 L2b - ~~at NW~~ bottom half of L2 <sup>of S5</sup> found only in southern   
 L3 = half of square <sup>S5 E5</sup> - second vegetable layer or general layer 3

L4 = L3 of S5, only in southern portion of S5. A yellow-brown layer ca. 2"-3" thick

L5 = The white ash, L5 of S5

L6 = brown layer with vegetable materials

L7 = yellow ash layer

L8 = brown layer, L8 of S5

L9 = top of gravel or at the junction with it

1. The ground level is 100 ft. above sea level.  
2. The top of the hill is 150 ft. above sea level.  
3. The level of the water in the lake is 120 ft. above sea level.  
4. The level of the water in the river is 110 ft. above sea level.  
5. The level of the water in the canal is 105 ft. above sea level.  
6. The level of the water in the stream is 100 ft. above sea level.  
7. The level of the water in the brook is 95 ft. above sea level.  
8. The level of the water in the ditch is 90 ft. above sea level.  
9. The level of the water in the pond is 85 ft. above sea level.  
10. The level of the water in the pool is 80 ft. above sea level.





Square S 5

General top levels badly pitted in NE and SW corners.

- Level 1 - Fill above top occupation.
- Level 2 - Top vegetable layer: Small area of it left in Level 2.
- Level 2-a - Dark brown layer over 2nd vegetable - in center of square becomes a white ash up to 1½" thick, vanishing completely in S & E and destroyed by treasure hunters' hole in W. A small powdery gray (or sandy) overlies this and marks a soil change which is all that distinguishes 2 from 3 in S of square.
- Level 3 - Second vegetable.
- Level 4 - Dark layer over ash. (Missing in most all of square.) becomes in a large measure a yellow ash layer in N with few veg. materials.
- Level 5 - Ash layer. (Pit from Layer 2 cuts into 5 and is resting upon it.
- Level 6 - Thin brown layer.
- Level 7 - Mixed brown earth and white and gray ash (Corresponds to 7 & 8 of N 5 E 10?
- Level 8 - A dark brown and gray layer with veg. matter in NE part of square. In NW a lighter gray level lying on rocks. About at junction between 7 and NW 8 were found the two artifacts of Layer 8, but App. in 8.
- Level 9 - The gravel (dark gray).

In the SE corner of the square, Level 6 thins out and disappears. A new dark brown level, starting below the surface of Level 7 supplanting Level 6, which it otherwise resembles. Under a large rock in SEernmost corner of square are traces of a gray vegetable layer starting in Level 7 below new brown layer. Under all these Level 8 was considered to include not only the dark brown layer, as previously, but a yellow ash which included some gravel, but was not a cemented gravel layer (up to 4" thick in places). In the gravelly yellow was found a tanged point. This was at a place directly under the treasure hunters' pit, about 1" or 2" below bottom of their pit. It was apparently safely in position, but intrusion cannot be absolutely excluded. Yellow layer in SE corner bagged as 3 may actually correspond to 4, consolidated brown layer.

the following is a list of the names of the persons who have been named in the foregoing report.

1. The names of the persons who have been named in the foregoing report are as follows:

2. The names of the persons who have been named in the foregoing report are as follows:

3. The names of the persons who have been named in the foregoing report are as follows:

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18. The names of the persons who have been named in the foregoing report are as follows:

19. The names of the persons who have been named in the foregoing report are as follows:

20. The names of the persons who have been named in the foregoing report are as follows:

21. The names of the persons who have been named in the foregoing report are as follows:

22. The names of the persons who have been named in the foregoing report are as follows:





Cave 47

19/2/54

47

square

into main NE + SW corners

Level 1 - very little left nothing.

Level of square, a white ash layer, approx. 2" thick - in E. another vegetable layer, bottom layering

Level 2 - a yellow to gray ash layer over layer 1. white ash + bagged as to yellow to gray ash.

Level 3 - Pink veg. Small area left

Level 4 - Dark brown layer

Level 5 - in center of sq. becomes a white ash up to 1 1/2" thick vanishing completely in S + E + destroyed by trees. hunters hole in west.

A small powdery gray (or sandy) this overlies & marks a soil change which is all that distinguishes 2 from 3 in S. of sq.

3 - 2nd veg. layer over ash becomes in large measure a yellow ash layer in N with few veg. materials.

4 - Dark layer over ash (missing in most - all? - of sq.)

5 - ash layer (Part from Layer 2. cuts into 5 and is resting upon it)

In SE corner of sq. L2 + 3 no longer distinguishable. Tried to dig L2 as thick (over)

6 - thin brown layer

7 - mixed brown earth + white + gray ash (corresponds to 7 + 8 of S5 E10)

8 - a dark brown + gray layer with veg. mat. in E part of square. In NW a lighter gray layer lying on rocks.

About at junction between 7 + NW 8 was were found 2 small pits

9 - The grave! (dark gray)

(Over)

(L2 cont.) In ~~the~~ <sup>east</sup> side of sq. ~~an ash level~~ <sup>brown</sup> was encountered on which ~~2~~ seemed to be sitting. In SE corner of sq., level 6 thins out and disappears. A new <sup>dark</sup> brown level, starting below the surface of level 7, ~~is~~ becomes the surface of level 7, supplanting level 6, which it otherwise resembles. Under a large rock in SE corner of square are traces of a gray vegetable layer starting in level 7 below new brown layer. Under all these, level 8 was considered to include not only the dark brown layer, as previously, but a yellow ash which included some gravel but was not a cemented gravel layer (up to 4" thick in places). In the gravelly yellow was found a Tanged point. This was at a place directly under the treasure hunters' pit, about 1" or 2" below bottom of their pit. It was apparently safely in position but intrusion can not be absolutely excluded. Yellow layer in SE corner, bagged as 3, may actually correspond to 4, consolidated brown layer.



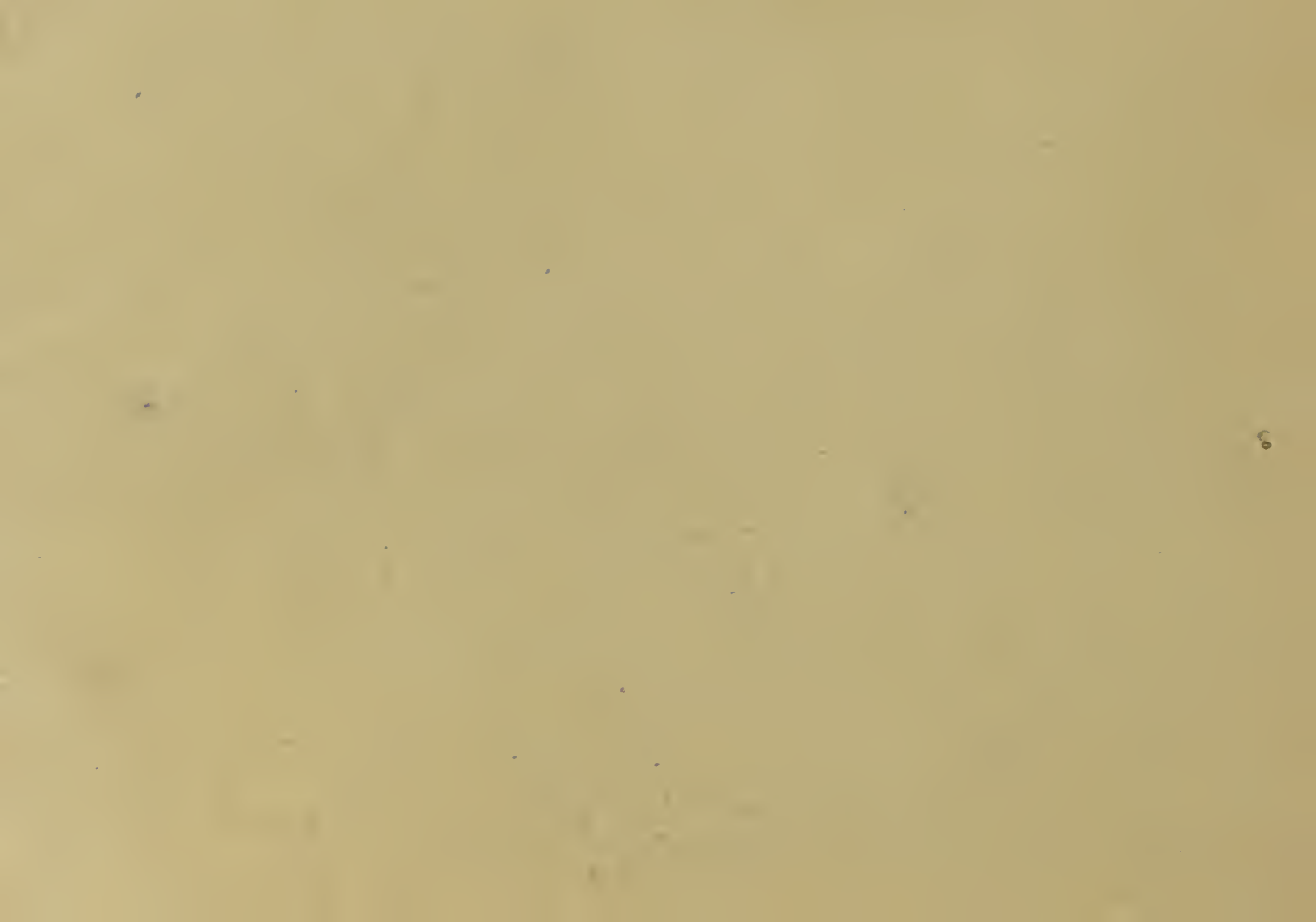


Square 5-5

General top level bedding pitted in NE and SW corners.

Level 1 - Fill above kyp occupation

Level 2 - kyp vegetable layer







Square S 5 W 5

General - Large rock occupies most of west of square. Eastern section and northern section are cut by two separate treasure hunters' holes. Some of bottom levels remained undisturbed and a possible fraction of the vegetable layers above on the north face of the square.

Level 1 - A thick gray layer was piled up against rock formerly up to Ca. 10" in the highest spot, but covering very little of the surface.

2

Level 2 - A brown layer up to Ca. 6" thick formed a little lens, sloping to nothing in NW where gray layer was thickest. This corresponded to W 5 L 1-a. L 1-b was so thin as to be nearly indistinguishable here.

Level 3 - First vegetable layer. Petate was lying in this, largely covered by L-2, here less than  $\frac{1}{4}$ " thick.  
Corresponds to L-2 and L-3 of S 5.

Level 4 - Brown layer. Corresponds to L-7 of S 5. From the bottom of this, apparently, pit goes down to 2nd petate.

All materials treated as surface finds, as extent of treasure hunters' penetration became more apparent.







TMC 247

S5 W5

Large rock occupies most of west of square. Eastern section and northern section are cut by two separate treasure hunters' holes. Some of bottom levels remained undisturbed and a possible fraction of the vegetable layers above on the north face of the square.

- L1 A thick gray layer was piled up against rock formerly up to 10" thick in ~~the~~ the highest spot but covering very little of surface.
- L2 A brown layer up to ca. 6" thick formed a little lens, sloping to nothing in NW where gray layer was thickest. This corresponded to W5 L1a. L1b was so thin as to be nearly indistinguishable here.
- L3 First vegetable layer. Potato ~~was~~ was lying in this, largely covered by L2, here less than  $\frac{1}{4}$ " thick. Corresponds to L2 and L3 of S5.
- L4 Brown layer. Corresponds to L7 of S5. From bottom of this, apparently, it goes down to 2nd potato.

All materials treated as surface finds as extent of treasure hunters' penetration became more apparent.

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MacNeish-Mexico Notes - 1953-54 - TM-C-247.

Square S 10 E 10.

Level 1 - Ash and refuse over first vegetable.

Level 2 - Top Veg. layer.

Level 3 - This is probably the third veg. layer, but it is very indistinct.

In SE, the vegetable layers become more distinct. L 5 becomes very indistinct and more yellow, between 2 rd-brown layers. L 5 and L 4 are both absent in SW.

Level 3-a - Vegetable, indistinct from above.

L-4 - Red brown layer.

Level 5 - Ash - white.

Level 6 - Brown-red.

Level 7 - White ash averaging some 3" thick.

Level 8 - Red-brown over rock.

In the SE a gray, soft vegetable layer comes in under L.8 - bagged with L. 8.

Note - In 2nd and 3rd of of square moving S Levels 3, 3-a and 5 were somewhat mixed, because these levels rapidly narrowed in thickness. Bag containing this mixed material is marked "Mix Levels 3, 3-a and 5".







S10E10

~~L-2-3~~

Feb 21

Level 1 - Ash & refuse over first veg

Level 2 - Top very boggy.

Level 3 - This is probably the third veg layer  
but it is very inconsistent

Level 3a - vegetable indistinct from above

L4 - red brown layer

Level 5 - ash (white)

Level 6 - Brn-Rd.

Level 7 - White Ash averaging some 3" thick

L. 8 Rd Brn over rock  
In ~~SE~~ a gray, soft vegetable layer comes in under  
L8, bagged with L8

In SE, The vegetable layers become more distinct.  
L5 becomes very indistinct and more yellow, between  
2 red-brown layers. L5 and L4 are both absent  
in SW.

over

S 10 E 10

Note In 2<sup>nd</sup> 3<sup>rd</sup> of square <sup>moving S</sup> level 3, 3a + 5  
were somewhat mixed because ~~that~~ 2  
and 1 these levels rapidly narrowed  
in thickness. Bag containing this mixed  
material is marked "mix levels 3, 3a + 5"





Square S 10 E 5.

Level 1 - Top loose fill down to first vegetable.

Level 2 - Top Vegetable.

Level 3 - Lower "

Level 5 - Ash.

Level 6 - Brown layer.

Level 7 - Yellowish ash.

Level 8 - Brown on yellow ground.







SIDE 5

✓

- Level 1 - Top wave pit - on a fine sand  
Level 2 - Top wave  
Level 3 - Limestone  
Level 5 - Ash  
Level 6 - brown layer  
Level 7 - yellowish ash  
Level 8 - brown on yellow gravel







Square S-10

First we removed treasure hunters' refuse in NE corner with Level 1 includes part of first vegetable area.

Level 2 - Probably second vegetable.

Level 3 - Vegetable layer sinks into ash layer from second veg.

Level 5 - Ash only on east side of square.

Level 6 - Brown layer underlying ash as well as yellow soil under it.

Level 7 - Lowest brown.

Level 8 - Reddish brown at junction of gravel.

Level 9 - Gravel.







S-10

Feb 21

7

First we removed brownish humus refuse in N.E. corner  
with shovel, includes part of first veg. area

Level 2 - probably second vegetable

Level 3 - vegetable layer sinks into ash layer  
from second veg.

Level 5 - ash only on east side of square

Level 6 - brown layer underlying ash  
as well as yellow soil under it

Level 7 - Tannish brown

Level 8 - Reddish brown at junction of gravel

Level 9 - gravel







MacNeish Mexico Notes - 1953-54. (Cave 247)

Square S 10 W 5.

General - This is a badly destroyed square, due to pot-hunters.  
Almost all top levels are missing.

Level 1 - Top 6" of vegetable on east side.

Level 2 - 6" to 12" of veg. on east side. Nothing in it.

Level 3 - Vegetable layer (6")

Level 4 - Vegetable layer (6")

Level 5 - Seems to be ash.

Level 6 - Brown soil.







General - This is a badly destroyed & quarried  
due to the potholes - almost all  
top levels are missing

Level 1 - Layer 6" of veg on east side

Level 2 6' - 12" " " " " nothing in it

Level 3 - vegetable layer (6")

Level 4 - vegetable layer (6")

Level 5 - seems to <sup>be</sup> ash

Level 6 - brown soil







MacNeish-Mexico Notes - 1953-54 - TM-C-247.  
Square S 15 E 15.

Kelley - Feb. 25/54.

The first vegetable layer (L 2 of S 10 E 10) thing out and rises nearly to surface. Level 1 and Level 2 together are here nowhere more than 2" thick.

- Level 3 - Vegetable layer  
Level 3-a Vegetable layer) Arbitrarily divided in half below  
S 10 E 10. Pipe found in L. 3.
- Level 4 - Brown layer, intermediate yellow layer, and lower brown layer (latter corresponding to L 4 in most of S 10 E 10). Found only in S. of square as it is cut by a pit from 3-a in N. of square.
- Level 5 - White ash layer. Contained a pit with animal skin and rope on grass bedding.
- Level 6 - Thin brown layer - no artifacts.
- Level 7 - Yellowish brown layer.
- Level 8 - Brown burnt vegetable layer overlying unburned gray vegetable material (all L. 8).

Square only half completed.



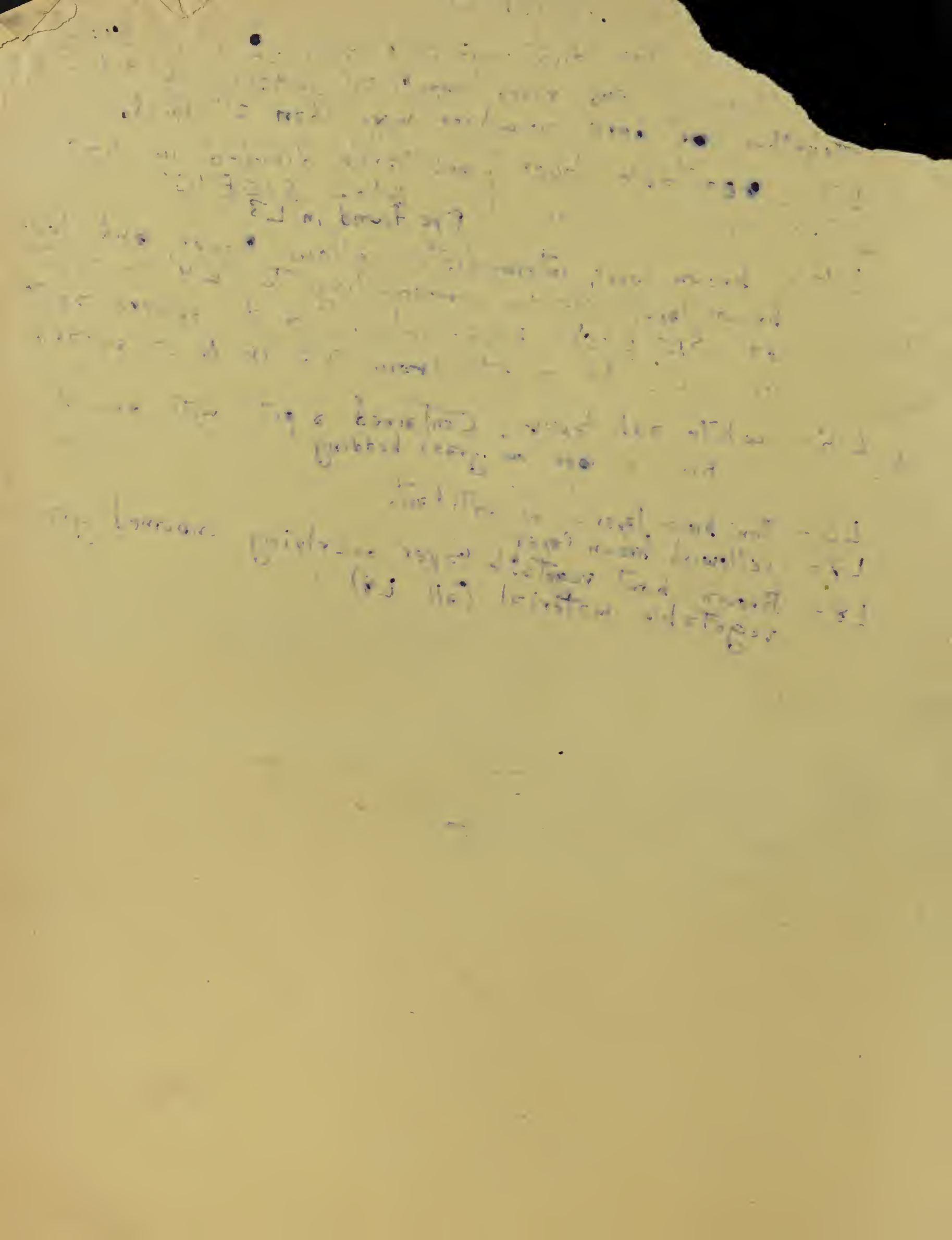




Elley 25 Feb. 54

- The first vegetable layer (L2 of S10 E10) thins out and rises nearly to surface. L1 + L2 together are here nowhere more than 2" thick.
- L3 - vegetable layer } arbitrarily divided in half  
L3a - " " } below S10 E10.  
Pipe found in L3
- L4 - brown layer, intermediate yellow layer, and lower brown layer (latter corresponding to 'L4' in most of S10 E10). Found only in S of square as it is cut by a pit from 3a in N of square.
- L5 - white ash layer. Contained a pit with animal skin + rope on grass bedding.
- L6 - thin brown layer - no artifacts.
- L7 - yellowish brown layer
- L8 - Brown burnt vegetable layer overlying unburned gray vegetable material (all L8).

S 15 E 15







Square S 15 E 10 ?

Level 1 - Top fill over first gegetable.

Level 2 - Gray ash of pit.

Level 3 - Veg. under pit.

3-a - Ash under pit.

Level 5 - Ash - nothing in it.

Level 6 - Brown layer under pit. This divided into 2 brown layers.

Level 7 - Yellow brown layer.

Level 7-b - Ash layer.

Level 8 - Dark layer.

Level 4 - is a floor just below veg. layer (Level 3), that comes in south <sup>1</sup>/<sub>2</sub> of square. However, it is really below 5, which does not appear in that particular sector.







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- top feet on first veg
- Level 2 - grass ash of part
- Level 3 - veg under part
- 3a - ash under part
- Level 5 - ash - nothing at all
- Level 6 - Brown layer under part plus *levelled*  
into 2 brown layers
- Level 7 - yellow brown layer
- Level 8b - ash layer
- Level 8 - dark layer
- Level 4 - is a floor just below <sup>level 3</sup> *veg*, *that* *comes*  
in south <sup>however</sup>  $\frac{1}{4}$  of square it really *below* 5 which *does*  
not appear in that *particular* *section*

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MacNeish-Mexico Notes - 1953-54. (Cave 247)

Square S 15 - E 5.

Level 1 - Top loose dirt down to first vegetable.

Level 2 - First vegetable layer.

Level 3 - Pit from first Vegetable.

Level 3-a - Bottom part of pit.







315ES

7

- Level 1 - Top loose dirt down to first veg.
- Level 2 - First vegetable layer
- Level 3 - pit from first veg.
- Level 3a bottom part of pit

Level 1 - Top layer, but also in front  
Level 2 - Front edge of layer  
Level 3 - Front edge of layer  
Level 4





Square S 15

Level 1 - This was the top vegetable on east side and the fill on the west side.

Level -2 - It is overlaid by ash. In south this is a thin black or brown line that grows into a vegetable in NW overlaid by ash in south east.

Level 2-b - Again - this is a thin level to south.

Level 3 - Big vegetable layer over ash to north and south.

Level 3-a - Lower part of Layer 3. Large pit in west centre part.

Level 4 - To south small ash layer separate this vegetable from 3, in the middle 3 and 4 blend together, while in the north Level 4 becomes a dark brown layer (Level 6 of outside levels) overlaid by ash.

Level 5 - Ash, one brown floor.

Level 6 - Gray ash with brown.

Level 7 - Dark gray.

Level 8 - Dark brown in rocks in fron.

Level 9 - Dark under rock.

Level 10 - Ash over carbon.

Level 11 - Gravel.

Chapter 1

1.1. The derivative of a function  $f(x)$  at a point  $x$  is defined as the limit of the difference quotient as  $h$  approaches 0.

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = \lim_{h \rightarrow 0} \frac{f(x) + hf'(x) + \frac{1}{2}h^2 f''(x) + \dots - f(x)}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{hf'(x) + \frac{1}{2}h^2 f''(x) + \dots}{h} = \lim_{h \rightarrow 0} \left( f'(x) + \frac{1}{2}hf''(x) + \dots \right)$$

$$f'(x) = f'(x) + \lim_{h \rightarrow 0} \left( \frac{1}{2}hf''(x) + \dots \right) = f'(x) + 0 = f'(x)$$

$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = \lim_{h \rightarrow 0} \frac{f(x) + hf'(x) + \frac{1}{2}h^2 f''(x) + \dots - f(x)}{h} = \lim_{h \rightarrow 0} \left( f'(x) + \frac{1}{2}hf''(x) + \dots \right) = f'(x)$$

Therefore, the derivative of  $f(x)$  at  $x$  is  $f'(x)$ .

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = f'(x)$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = f'(x)$$

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$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = f'(x)$$





- Level 1 - This was the top layer on east side and  
the fill on the west side
- Level 2 - It is overlaid by ash  
In south there is a thin blackish brown  
line that grows into a vein in N.W.  
overlaid by ash in south - ~~thick~~
- Level 2b Layer - this is the line level to south
- Level 3 - Big veg layer over ash to north &  
south
- Level 3A - Some part of layer 3 large pit in west center part
- Level 4 - To south small ash layer separate also  
veg from 3, in the middle. 3-4 flint  
together while in the north level 4 becomes  
a dark brown layer (level 6 of outside  
level 6) overlaid by ash
- Level 5 - Ash and brown floor
- Level 6 - Gray ash with brown
- Level 7 - ~~many~~ dark gray
- Level 8 - Dark brown in rocks in front
- Level 9 - dark under rock
- Level 10 - ash over carbon
- Level 11 - gravel

~~S15E10~~

S15

Report of the Committee on the - A. E. House

Report of the Committee on the - A. E. House

Report of the Committee on the - A. E. House

Report of the Committee on the - A. E. House  
Report of the Committee on the - A. E. House





on 27 Feb. 54 by Kelley  
dug by treasure hunters.

(S30?)

1st vegetable layer  
ash + burnt brown vegetable layer  
white ash over brown to black vegetable layer  
white ash over a thin brown vegetable layer (4a)  
a yellowish layer over a ~~thick brown~~ <sup>thin black</sup> vegetable  
(4b). Both together equivalent to level 4 of  
W 5.  
brown generally overlying dark brown to  
brown vegetable layers.

S30 — 28 Feb. - 1 Mar. - Kelley.

Bagged with S25  
2 areas shafts from  
by treasure hunters.

L1. One from levels disturbed  
the other in vegetable layers.  
White ash above L3 vegetable becomes a brown fine  
earth + distinction between 2 + 3 becomes faint in  
NW of square.

*[Faint handwritten notes at the bottom of the page]*

... ..

1890

1871

... ..

1895





Square S 15 W 5 of Cave 247.

Level 1 - This is the first vegetable layer down to ash.

Level 2 - This includes an ash layer and a brown layer  
overlying a vegetable layer.







Square S 20 E 10

- Level 1 - Top loose dirt in north half of square.
- Level 2 - This is a loose gray ash vegetable layer.
- Level 3 - This is the lower six inches of what appears to be the same vegetable layer.
- Level 4 - First brown layer under ash below vegetable.







S20E10

7

- Level 1 - top loose dirt in north half of square
- Level 2 - This is a loose gray ash vegetable layer
- Level 3 - This is the lower six inches of what appears to be the same vegetable layer
- ~~Level 3a - This is the lower part of the same veg. layer~~
- ~~Level 4 - overlain by ash was a thin veg layer~~
- Level 4 - Fine brown layer under ash below veg.

1 - Top layer of soil on road, half of surface  
2 - This is a layer of soil and gravel, 1/2 ft.  
3 - This is a layer of soil and gravel, 1/2 ft.  
4 - This is a layer of soil and gravel, 1/2 ft.  
~~5 - This is a layer of soil and gravel, 1/2 ft.~~  
~~6 - This is a layer of soil and gravel, 1/2 ft.~~





MacNeish-Mexico Notes - 1953-54. (Cave 247)

Square S 20 E 5.

General - Badly pitted.

Level 1 - Loose fill to north.

Level 1-A - Good strata in situ to south.

Level 2 - Second vegetable layer.

Level 3 - Vegetable sloping downward to north.

Level 4 - Thick vegetable to north, but thin to south.

Level 5 - Ash over vegetable to south and brown to north.

Level 6 -







S20ES

9

# General Badly Pitted

- Level 1 - Loose fill to north  
Level 1A - good strata in situ to south  
Level 2 - second vegetable layer  
Level 3 - big vegetable sloping downward  
to north  
Level 4 - <sup>shells</sup> big to ~~north~~ <sup>south</sup> but then to south  
Level 5 - ash over veg to south and brown  
to north  
Level 6

Handwritten text, likely bleed-through from the reverse side of the page. The text is written in cursive and appears to read: "I have been thinking of you very much lately." The paper is aged and shows signs of wear, including a large tear on the left side.





Square S 20

Feb. 21/54.

General - This square has been disturbed. Pits on 3 sides.

Level 1 - Fill and veg. strata over front only.

Level 2 - Ash overlying veg. layer or dark brown layer.

Level 3 - Ash overlying veg.

Level 4 - Ash overlying veg.

Level 5 - Ash over brown

Level 6 - Ash over brown.

Level 7 - Mottled yellow gray ash.

Level 8 - Brown soil underlaid by brown layer.

Level 9 - Brown soil underlaid by charcoal.

Level 10 - Brown soil down in rocks going to a depth of 4'2"  
below the surface where the base of a Nogales Round  
Base occurred.







Tm = 247 - S20

Feb 21

✓

~~Level 1~~ - The exposure has disturbed part on 3 side

S20

Level 1 - Fill and veg starts over first ash

Level 2 - Ash overlying veg layer or dark brown layer

Level 3 - Ash overlying veg

4 - Ash overlying veg

5 - ash over brown

6 - ash over brown

7 - Mottled yellow gray ash

8 brown soil underlain by Brown layer

9 " " " by charcoal

10 Brown soil shown in rocks going to a depth of 4' 2" below the surface where the base of Nogales River bed occurred







MacNeish-Mexico Notes - 1953-54.

Square S 20 W 5 of Cave 247

General - Only the west corner of this had been disturbed.

- Level 1 - This included surface dust down through the first vegetable layer.. Discarded 157 pieces of grass, 14 palmeto leaves and 168 yapiya (Tuna leaves).
- Level 2 - Ash with underlying brown soil which was underlaid by a vegetable layer - ash and brown soil pinch out to the south. 334 gapaya (Tuna leaves), 214 palm leaves and 6 handfulls of grass were discarded
- Level 3 - This included more ash over the 3rd layer of vegetable material. 34 plam leaves and 82 Tuna leaves were discarded. Pit extends from this under Stkke S 15 W 10 as well as from S 20 W 5.
- Level 4 - Brown and ash thru a vegetable layer badly burned 24 pieces of palm and 51 Tuna discarded, as well as grass. A pit (5) extended from it ... S 15 W 5.
- Level 5 - This is an asg grey layer that blends into a white ash underneath by brown with carbon bottom. White ash became 5-A. 10 Tuna discarded.
- Level 6 - Mottled gray charcoal overlying brown thin layer. Found an Abasola Triangular in brown (6-A).
- Level 7 - In west part of the square this was a layer in and around rock. It was mainly yellow-white ash.
- Level 8 - Dark brown. In center of square this is around the rocks. This has vegetable under it.
- Level 9 - Dark brown with a vegetable layer under. Lies on rock in center of square. Does not appear to west.







Square S 25 W 5

General - This level is relatively undisturbed, though the top has been piled on by the looting in Square S 25.

Level 1 - Top layer of vegetable and undoubtedly included discarded material from adjacent square.

Level 2 - A top thin layer of ash overlies a brown layer that blends into a veg. layer. The top ash, however, gets thicker to the south.

Level 3 - A thin layer of ash that changes to mottled ash over veg.

Level 4-a - Ash and dark brown. This was the top of Layer 4 in S 20 W 5.

Level 4-b - Vegetable layer. This is quite thick and full of feces and wads of grass roots.

Level 5 - Gray ash overlying a brownish black. that turns to veg.

Level 6 - Mottled white and gray over veg. and brown.

Level 7 - Gray ash.

Level 8 - Brown with veg.

Level 9 -







great. This level is relatively undisturbed although the top had been pulled on by the leveling in square 25.

Level 1 - Top layer of veg. and undoubtedly included discarded from adjacent square

Level 2 - a top thin layer of ash overlies a brown layer that blends into a veg. layer. The top ash however get thicker to the south.

Level 3 - a thin layer of ash that changes to mottled ash over veg.

Level 4a - Ash and dark brown ash was the top of layer 4 in 320W5

Level 4b - Vegetable layer - This is quite thick and full of pieces and mounds of grass roots.

Level 5 - Gray ash overlying a brownish black ~~that may be very~~

Level 6 - Mottled white & gray over veg & brown.

Level 7 - Thin gray ash

Level 8 - Brown with ~~very~~

Level 9







Square S 30

General - This square slopes down under the back wall of the cave.  
Levels in south half are completely mixed.

Level 1 - Top refuse in first half.







General - The square slopes down under the  
 front wall of the - level - and the half  
 are completely covered.

Level 1 - Top of the square in front half







Square S 30

Feb. 28 - Mar. 1/54 - Kelley.

Bagged with S 25.

2 Arrow shafts from Level 1. One from levels disturbed by treasure hunters, the other in vegetable layers.

White ash above Level 3 vegetable becomes a brown, fine earth and distinction between 2 and 3 becomes faint in NW of square.







Square S 30 W 5

- Level 1 - Top vegetable layer overlaid by loose brown sand.
- Level 2 - Ash overlying a thin brown layer sometimes containing vegetable materials.
- Level 3 - Ash overlying another brown layer. A pit appears to go down from this layer, but it may be from 2.
- Level 4-a - Ash over layer of veg.-pit from this layer.
- Level 4-b - Layer of veg. in same place under yellow soil
- Level 5 - More vegetable layer overlaid sometimes by ash.
- Level 6 - is a thin layer of ash overlying brown floor.
- Level 7 - Gray ash.
- Level 8 - Floor of veg.
- Level 9 - Way down in rocks.

In the back of the square Level 2, 3 and 4 blend into a large layer of ash and were bagged accordingly.

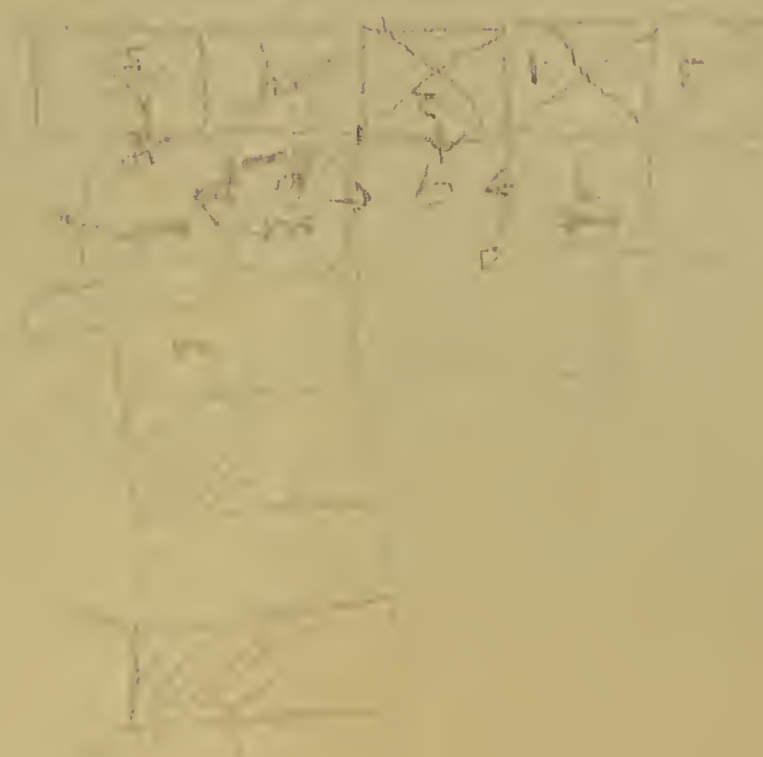






## general

- Level 1 - Top vegetable layer overlaid by loose brown sand.
- Level 2 - Ash overlying a thin brown layer sometimes containing vegetable materials
- Level 3 - Ash overlying another brown layer  
It just appears to go down from this layer  
but it may be from ?
- Level 4a - <sup>ash</sup> layer of veg - put from this layer
- Level 4b - layer of veg in some place under yellow soil
- Level 5 - <sup>more</sup> vegetable layer overlaid sometimes by <sup>ash</sup> ~~much ash containing pebbles & basket~~
- Level 6 - as above layer of ash overlying brown floor
- Level 7 - gray ash
- Level 8 - floor of veg.
- Level 9 - veg down in cracks
- In the back of the square level 2, 3 and 4 blend into a large layer of ash and were brought according by







MacNeish-Mexico Notes - 1953-54.

Square N 5 E 15 of Cave 247.

MacNeish - Santa Anna - Feb. 7.

General - Square sloping badly to the north. Cross sections reveal strata coming out horizontal and being cut by erosion.

Level 1 - Top powdery grey ash soil. Same as Level 1 in . . . overlie vegetable.

Level 2 - Vegetable layer. Same as L2-3 of N 5 E 10.

Level 3 - Small dark cemented area - same as level 4 of N 5 E 10.

Level 4 - Ash layer (same as Level 5 of N 5 E 10).

Level 5 - Gray-brown darker ash layer (level 6 of N 5 E 10)

Level 6 - Burned ash layer (level 7 of N 5 E 10)  
and charcoal

Level 7 - Gravel layer, top 4"-6" on north colored gray by layer above, rest yellow, corresponding to levels 9-10 of N 5 E 10.

In E half of N 5 E 15 found thin lens of gray sand separating 2 halves of level 2, bagged as 2-A, 2-B & 2-C; probably 2-A and 2-C the same as level 2 and level 3 respectively of N 5 E 10.

Interned gray sand up to 1½" thick in places, containing (2-B) many small insect pupae and small animal bones.

In Level 5 are thin lenses of brown sand and very small gravel. 3 sherds bagged with Level 4, probably belong with Level 5.

In north half of N 5 E 15 the vegetable materials and other remains of Level 2-C are mixed into the thin gravel of Level 5 to form a thick gray gravel layer continuous with both 2-C and 5. The other layers ending at a stone in the middle of the square. Materials all bagged as 2-C, 2 corncobs, bagged as Level 5 may possibly be from Level 2-C in southeast corner of square where this level is directly over 5, although I thought 2-C had been completely removed. (5 was being removed with shovel.)







Square N 5 E 10 of Cave 247.

(Kelley, Grant, Pancho.  
MacNeish Feb. 6-7.)

The NW 7/8 of this square had been excavated by the treasure hunters to a depth of about 3 feet. We cleared out to below their fill, sacking their backfill with the surface. The levels here recorded are for the 1/8 of the square to a depth of 3 feet and the whole square below 3 feet.

- Level 1 - 1 - In SE corner down to a depth of 6 inches mainly gray  
Zone/ash - sits on top of first vegetable area (zone)
- Level 2 - In SE corner of square from 6" to 10" below surface.  
Zone A pure vegetable layer about 4" thick.
- Level 3 - In SE corner of square from 10" to 13" below vegetable  
Zone of Level 2 and below ash at its bottom - 2nd vegetable layer  
(Zone)
- Level 4 - SE corner and along east edge - small dark cemented zone  
( ) just above ash and under vegetable layer. Level  
about 1 inch thick.
- Level 5 - Ash layer about 4 inch thick - has a number of lenses. in  
it varying in colore from white to cream to brown.
- Level 6 - Brown - gray soil 4 to 6 inch thick under ash.
- Level 7 - 6 inch layer in SE corner is burned layer with ash over it  
while to the west it is a vegetable layer.
- Level 8 - 4 to 6 inches layer in reddish-dark brown layer.
- Level 9 - Gravel in ... soil - 6 inch .... level.  
No evidence of occupation.
- Level 10 - Gravel in ... soil. Sterile down to irregular  
rock floor.







MacNeish-Mexico Notes - 1953-54.

Square N 5 E 5 of Cave 247.

General This was excavated into the gravel by treasure hunters, However, the gravel was pure and began on it. As a surface collection of little value we bagged considerable of the stuff from the treasure hunter digging.

Level 9 - Top of gravel - Same as Level 9 of N 5 E 10. This had artifacts in it, including a Gypsum Point.

Level 10 - Gravel and rock - no artifacts.

Level 5 This was a layer of vegetable material, lense shaped in ash lay r. I suspect it was part of a pit in which Romero got his burial.







Square N-5 of Cave 247.

General This trench had been partially disturbed and so only its western half had very much of its strata. All the top layers above the first prominent ash layer were missing, so we started with the ash layer, calling it Layer 5.

Level 5 Ash layer. This was absent in south center of trench and was thinner than previously. It is also .. lenses. In N 5 E 5 and N 5 E 10 this was Level 5

Level 6 Under it is a layer of vegetable material that seems this is a brown soil elsewhere and Level 6 in N 5 E 10.

Level 7 This was ash but to the east is vegetable. Contained nothing.

Level 8 Charcoal layer - Layer 8 of square to the east.

Level 10 Gravel.

In the extreme west 1 foot of square we were able to dig in regular level.

Level 1 - Red-brown soil.

Level 2 - Vegetable layer over gray sand-like soil.

Level 3 - Vegetable layer contained a great deal.

Level 4 - Gray-brown compact layer but contained nothing in it and was very thin.







Square N 5 W 5 - Feb. 6/54 - Pratt and Santa Anna

General - Square slopes northward near mouth of cave.  
Undoubted some erosion and slipping.

Level 1 This is the top layer in the south  $2/3$  of the square that extended down to red-brown layer. In NW  $1/3$  it goes down to greyish-white ash. Powdery grey-brown soil comprised this first level.

Level 2 This NW  $1/3$  sector of white ash 0.10" thick was excavated to a closely intermingled and charcoal flecked ash layer which was  $1/2$ " thick on its eastern edge, tapering to a  $1/16$ " thickness at the western periphery of the square. The absolute boundary of this sector of white ash, as so far described (i.e. to the S and E) was a compact reddish-brown soil zone, averaging 6.1" in width. To the south of this latter layer appeared a blackish grey ash layer which occupied the remaining portion of the square, except for a thin white ash layer 1" to  $1/2$ " thick in the SW sector of the square. See Floor Plan for N 5 W 5, Level 2.

Note - The white ash layer was devoid of artifacts or vegetable material, tho several flint chips and fire-cracked limestone chunks appeared.







MacNeish Mexico Notes - 1953-54.

Square N/S Line E 15 of Cave 247.

Kelley, Bbnifacio, Juan Montalvo - Feb. 8/54

Level 1 - Level 1 - N 5 E 15 - 47 Mupalis discarded.

Level 2-A - Level 2-A - N 5 E 15 - 32 Mupalis discarded

from Level 3 penetrated 2-B and into 2-A in part of square.

Level 3-B -- Level 2-B --- N 5 E 15

Level 3 --- Level 2-C --- N 5 E 15 --- Vegetable materials.

Level 4 - Gray layer under vegetable and above ash.

Level 5 - Ash level - Now the top and bottom are divided by  
a dark layer - 3 haupalis.

Level 6 - Mottled gray. Charcoal level. It connects with  
Level 7 of N 5 E 15.

Lower levels cemented in.







21

MacNeish-Mexico Notes - 1953-54.

Square E 10 of Cave 247.

General - This is an in-between square - easy to dig.

Level 1 - Brown-reddish soil above top vegetable. This is a very thick layer and is almost ready to be subdivided but there seems to be no true differences in it.

Level 2 - This is a very clear vegetable layer to the west but rather poorly defined to the east. Also to the west it often has a layer of ash under it.

Level 3 - This is the lower vegetable layer and for the most part overlays the ash.

Level 4 - Is a small compact layer.

Level 5 - The ash.

Level 6 - This is red-brown soil that along the south east corner dips down.

Level 7 -

Level 8 - Mottled gray.







Figure E 10

General view to southeast across valley

Look to Brown Ridge and Adams Express.







Level 1 - This is a very thick layer and is almost ready to be subsumed but where seem to be no true differences in it

Level 2 - This is a very clear vegetable layer to the west but rather poorly defined to east. Also to the west it often has a layer of ash under it

Level 3 - This is the lower vegetable layer and for the most part overlaps the ash

Level 4 - Is a small compact layer

Level 5 - The ash. First hole dug down on East side

Level 6 - This is a real brown soil that along the southeast corner dips down

Level 7 -

Level 8 - mottled gray







MacNeish-Mexico Notes - 1953/54.

Square E 5 - Cave 247.

Grant

General - This is an undisturbed square, more or less flat on top.

Level 1 - This level was mainly ash and vegetable mixed in no regular strata. It was thin to the north and got thicker near the center. 33 Huapillus discarded.

Level 1-A - Small ash area in NW corner. Nothing in it.

Level 2 - This was of vegetable, on the north edge not separate from the one below it. However, as we dug southward it was noticeably separate and underlaid by ash and refuse that was included in the level. The vegetable slopes downward toward the north. Discarded - 66 huapillus, 4 palms, 7 handfulls of grass.

Level 3 - Vegetable layer sloping NE overlying ash.  
Discarded - 62 huapillus, 4 plams, 7 handfulls of grass.

Level 4 - Vegetable layer sloping NE, overlying ash.  
Discarded - 80 huapillus, 1 handfull of grass.

Level 5 - Ashes of large fire, sloping SW. 3 sherds only.

Level 6 - Earth and a little vegetable layer, nearly level.

Level 7 - Level vegetable layer. Discarded 12 huapillus, 2 pãams, 2 handfulls of grass.

Level 8 - Red soil with boulders.

Level 9 - Gravel to rock.







MacNeish-Mexico Notes 1953-54. (Cave 247)

Square 0 - 0

Level 1 - Top vegetable layer.

Level 2 - Second vegetable layer.

Level 3 - White ash layer (Level 5 of adjacent squares).

Level 4 - Brown ash layer. This is disturbed nearly to bottom by treasure hunters. Little left.

Disturbed mats, bagged as 0 - 0 Surface, not as Level 1.







O-O

L1 — top vegetable layer

L2 — second vegetable layer

L3 — white ash layer (L5 of adjacent squares)

L4 — brown ash layer

This is square disturbed nearly to bottom  
by treasure hunters, little left.

Disturbed mats. bagged as O-O surface  
not as L1

1. 1000 ft. of  
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TABLE.

1. SURFACE JUNK	1	
2. VEG. LAYER	2	Poor pottery. Big-eared modern corn
3. VEG. LAYER	3	(Serrated points) Abasolo points Corrugated Pottery Brownsville Concave, Corner Notched - Pipe
4. BROWN LAYER		Serrated points?
5. WHITE ASH	4	Serrated points; Matamoros Triangular, Catan Roundbase Black Pottery, fairly good (Zaquil sherd)
6. BROWN LAYER		Beans
7. Brown & Yellow Ash	5 - Ash 6 - Ash 7 - Veg.	(Pottery) (Modern? cobs) Abasolo Triang. Tortugas " (Pottery)? Corn cobs (rare)
Gray Ash	7 - Veg.	Ash (Abasolo Point, round base)
8. BROWN VEG.	8	Abasolo plus Catan round base; harpoon, (squash?); Tanged point
GRAY VEG.		Ash Veg. 9 Catan and Abasolo round base, large scrapers, Gourd
		Ash Veg. 10
9. GRAVEL		Gravel. "Gypsum Cave" point



TABLE.

1. SURFACE JUNK	1	
2. VEG. LAYER	2	Poor pottery. Big-eared modern corn
3. VEG. LAYER	3	(Serrated points) Abasco points Corrugated Pottery. Brownsville Concave, Corner Notched - Pipe
4. BROWN LAYER		Serrated points <sup>7</sup> )
5. WHITE ASH	4	Serrated points; Matamoros Triangular, Catan Round base Black Pottery, fairly good (Zaqui sherds)
6. BROWN LAYER		Beans
7. Brown & Yellow Ash	5 - Ash 6 - Ash 7 - Veg.	(Pottery) (Modern? cobs) Abasco Triang. Tortugas " (Pottery)? Corn cobs (rare)
Gray Ash	7 - Veg.	Ash (Abasco Point, round base)
8. BROWN VEG.	8	Abasco plus Catan round base; harpoon, (squash?); Tanged point
GRAY VEG.		Ash
	9	Catan and Abasco round base, large scrapers, Gourd
		Ash
	10	Veg.
9. GRAVEL		Gravel. "Gypsum Cave" point







1 Surface junk

Poor pottery  
big-eared modern corn

2 Vegetable layer

3 serrated points

Abasco points  
Brownsville Concave, Corner Notched pipe

3 Vegetable layer

(serrated points?)

4 Brown layer

4 serrated points; Matamoros triangular Black pottery, fairly good

Catan round base (zapuil sherd)

5 White Ash

(pottery)

(modern? cobs)

Every primitive ~~cobs~~ beans

6 Brown layer

5 ash  
6 ash  
7 ash  
8 ash  
9 ash  
10 ash

Abasco Triang (pottery?)  
Artoegas "

(Abasco point?)  
(round base)

7 Brown + yellow ash

8 veg.

Abasco + Catan round base; harpoon (squash?); Tanged pt.

8 Brown vegetable

ash veg. {  
9 ash veg. {  
10 ash veg. {

Catan + Abasco round base

large gourd  
large scrapers

Gray vegetable

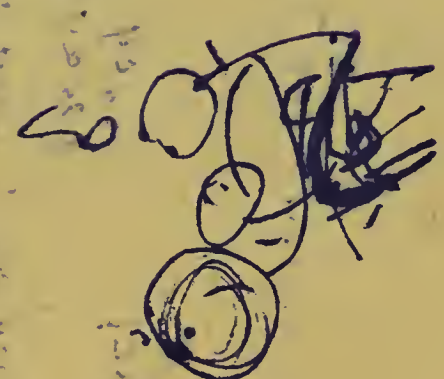
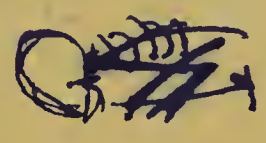
ash veg. {  
10 ash veg. {

9 Gravel

→ gravel

"Gypsum cave" point





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TABLE

OUTSIDE	INSIDE	PERIODS	CORRELATIONS	A	B	C	BURIALS
1	1	Big Modern Corn	Los Angeles & Sheestral Los Angeles				
2	2	V-b					
3	3	V-a	Corrugated Pottery Brownsville Concave		Post Classic		Burial
4							
5	4	IV	Zaquil engraved Beans, serrated points				Burial bundle flexed
6							
7	5	III	Non-pottery? Corn, Abasolo plus Tortugas Triang.		La Perra Classic Late 6 or Early 5		3 Burials flexed, covered with mats
8	8		Squash, tanged points				
	9		Non-pottery, Cetan plus Abasolo round base - Nogales				
	10		Non-corn				
9			"Gypsum Cave" Point				
<hr/>							
V-b - Los Angeles							
V-a							
IV	Publito						
III	(Classic)		Pueblito				
II	La Perra						
		La Perra					
I	Nogales						



TABLE

OUTSIDE	INSIDE	PERIODS	CORRELATIONS	A	B	C	BURIALS
1	1	Modern Corn		Los Angeles & Sheestral Los Angeles			
2	2	V-b					
3	3	V-a	Corrugated Pottery Brownsville Concave		Post Classic		Burial
4							
5	4	IV	Zaquil engraved Bells, serrated points	Pueblito			Burial bundle flexed
6							
7	5	III	Non-pottery? Corn, Abasolo plus Tortugas Triang.	La Perra Classic	Late 6 or Early 5		3 Burials flexed, covered with mats
8	8		Squash, tanged points				
	9		Non-pottery, Catán plus Abasolo round base	-Nogales			
	10		Non-corn				
9			"Gypsum Cave" Point				
<hr/>							
V-b - Los Angeles							
V-a							
IV			Pueblito				
III			(Classic)				
II			La Perra				
I			Nogales				







Outside	Inside	Periods	Correlations			Burials
			A	B	C	
1	1	Big Modern Corn	Los Angeles			
2	2	II b. corrugated pottery	+ ancestral Los Angeles			
3	3	IIa Brownsville Concave		Post-classic		burial
4	4	IV zaguilengrand beans & serrated points	Pueblito			burial bundle flexed
5	5	III pottery				burial
6	6	non-pottery?	La Perra	Pueblito Classic	La Perra	late 6 or early 5 3 burials flexed, covered with mts
7	7	II corn Abasco + Tortugas Triang.				
8	8	I squash? - Tanged pts.				
9	9	non-pottery - Catan + Abasco round base	Nogales			
10	10	non-corn				

9 "Gypsum Cave" point

VIb Los Angeles

IIa

IV  
III  
II

Pueblito (classic)

Pueblito

La Perra

La Perra

Nogales







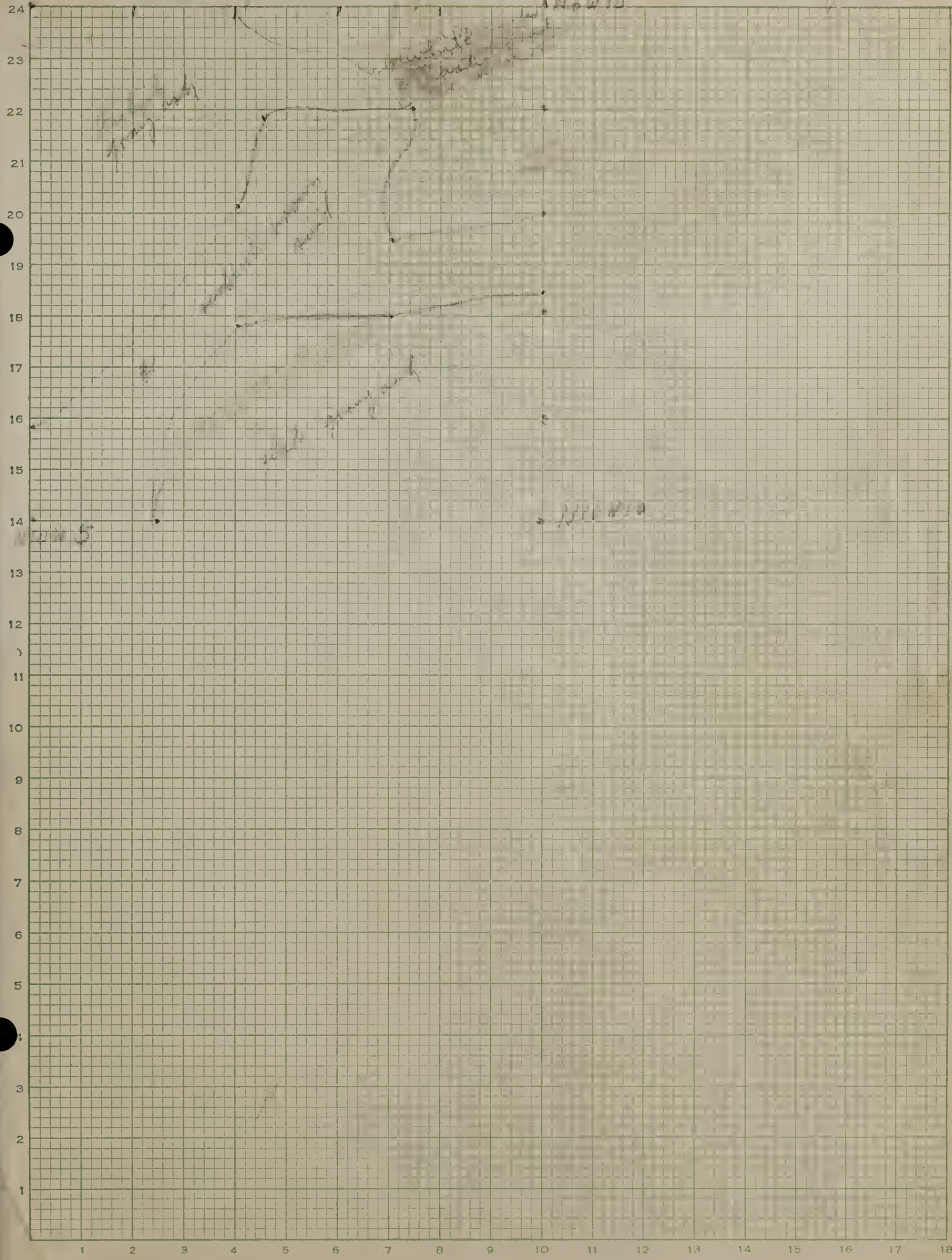
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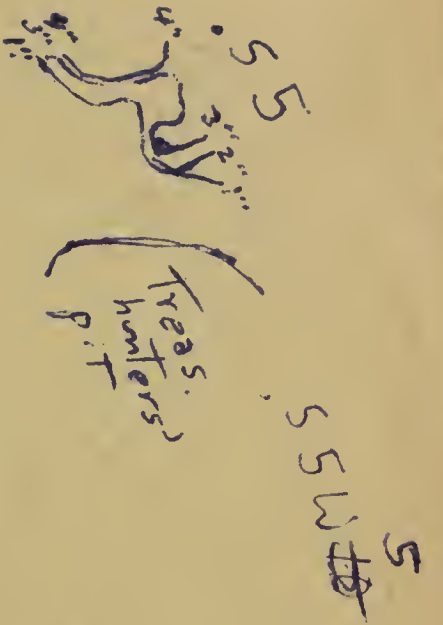
WS bottom of level 2 - ... NW 10











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Contour map, level 3

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Cross section from 0-5 2 1/2' To W 2 1/2' - 5 2 1/2'

~~DD of S 5~~

~~Veg. layer (2)~~

~~layer 3 (here not vegetated)~~

~~Treasure hunters' pit~~

DD of S 5

Vegetable layer (2)

Layer 3 here not vegetated  
Treasure hunters' pit  
White ash 5  
brown 6  
yellow + brown 7  
lowest brown 8

Above as originally drawn  
Below as corrected

5 white ash 3 5 5  
6  
7 yellow + brown  
8 lowest brown  
new brown layer, supplanting 6

2001 ~~10~~ 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844.

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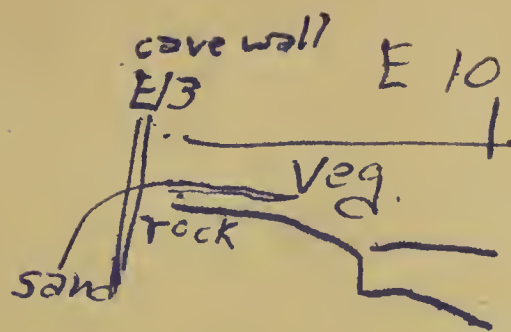
3. Anteilnahme, weil man sich





E 11'4" - rock - surface - 1'3"  
 11'3" - rock - " - 2'  
 E 10 - rock DD - 2'5"  
 - 2'6"

white ash / veg. DD. - 1'3"



E 7'5" - white ash being cut by dipping  
 veg. layer (DD of E 10 - 1'3")  
 rock (" " - 3'3")

E 5'9" - ash comp. cut by veg. layer

~~E 4'12" - brown layer below ash, cut by same veg. layers~~

E 5 - rock 2'7" below DD - 3'6" below surface.  
 rock + 1'3 1/2" - Top of brown layer below white ash  
 level, here thinned to nothing or turned gray

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1911-12-13 Les grands des - " 23

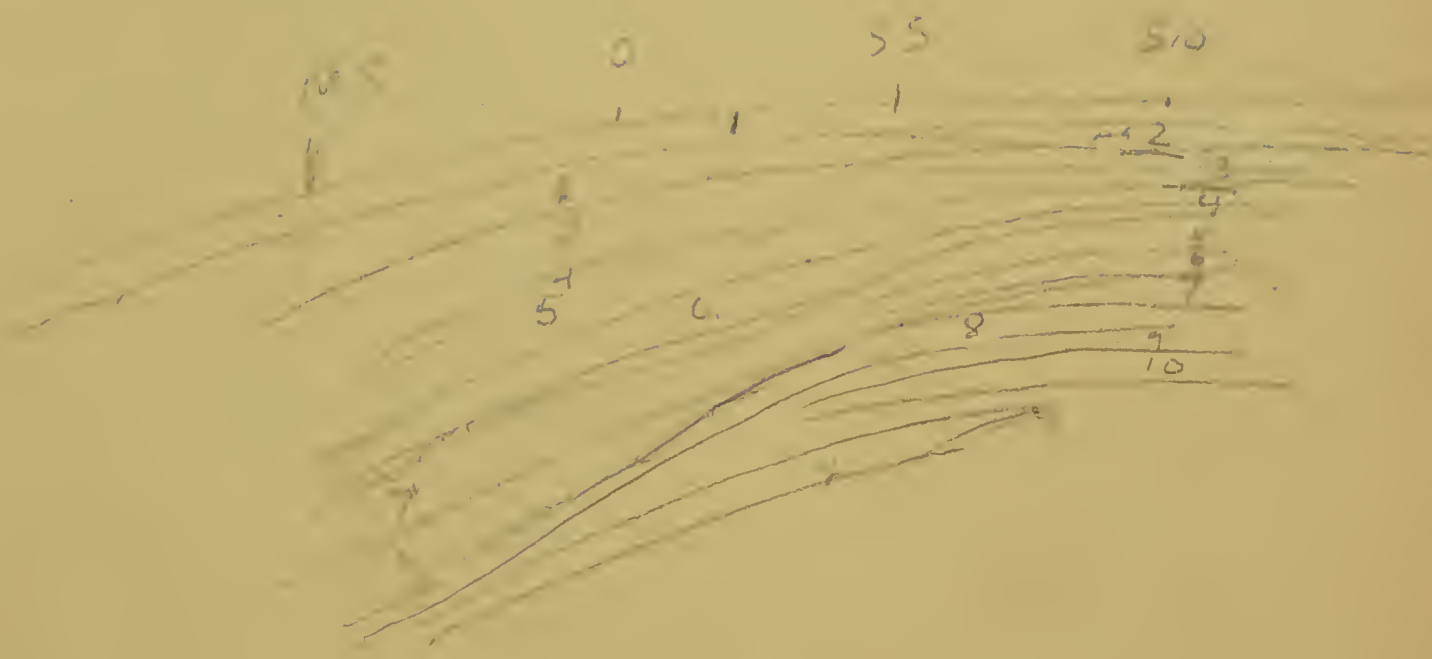
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received to get - "day" + 2008  
paid to at present

(over, 1900)







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20  
27<sup>th</sup>

Fri 12-24 pesos gas  
53.00 apples

Sat 13-18 pesos gas  
24 pesos meals

Sun 14 - 12 meals pesos meals  
18 pesos gas  
9 pesos meals

Mon 15 - 12 meals  
6.75 - dollars gas fuel  
4.00 - gas pumps  
52.50 - hotel  
3.00 meals  
6.00 meals  
6.00 paper  
35.00 equip.

- 45 gas in Mexico  
16 - 10 pesos - gas  
27 pesos  
9 lunch

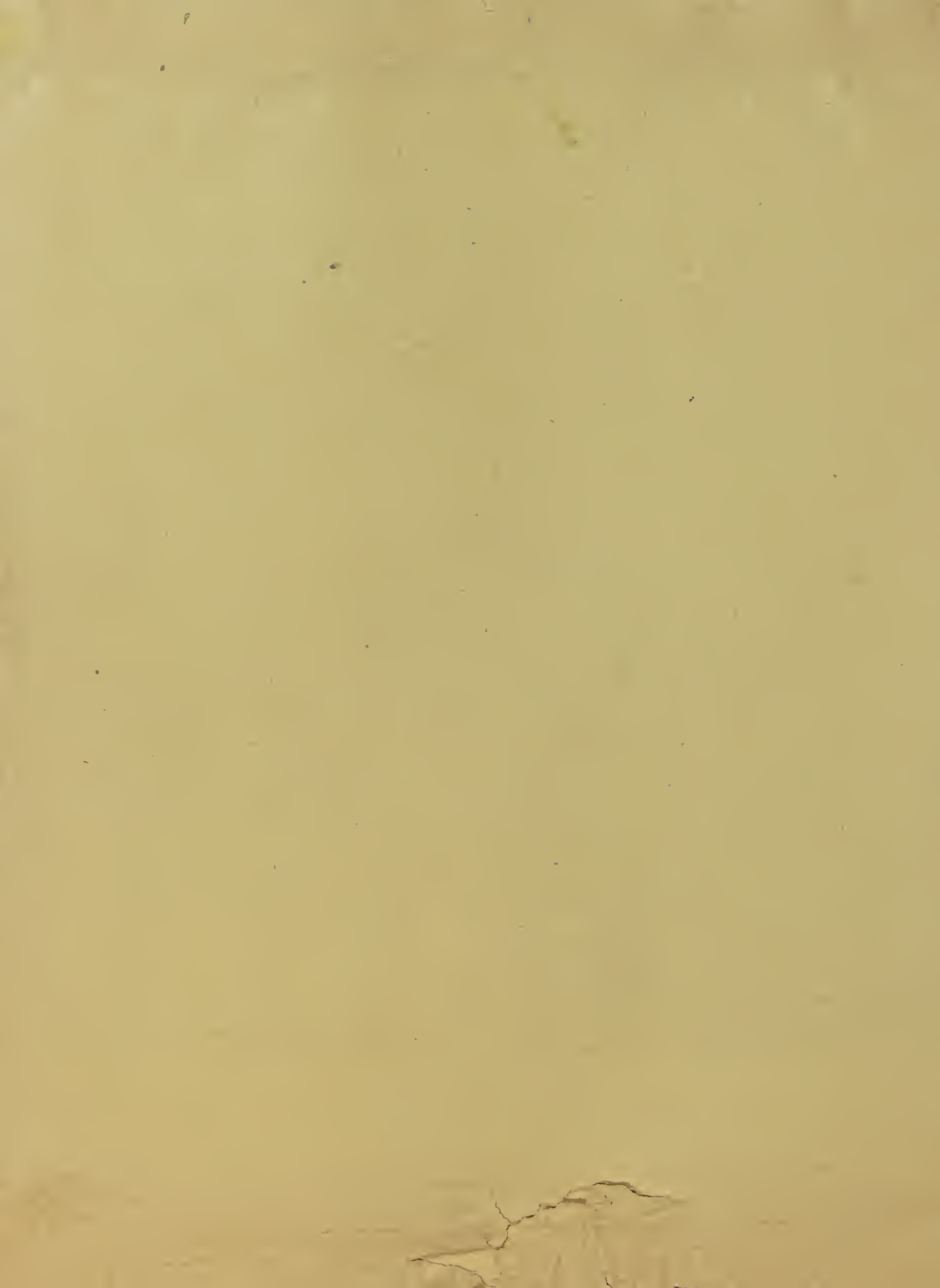
17 - 53 pesos to Juan Montalvo



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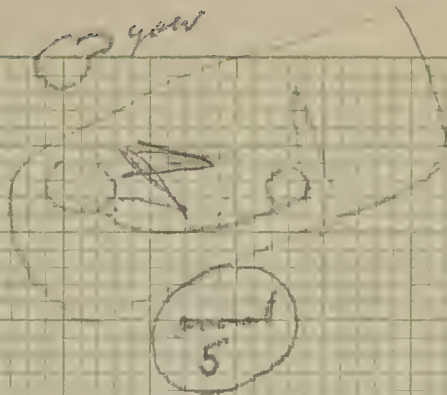
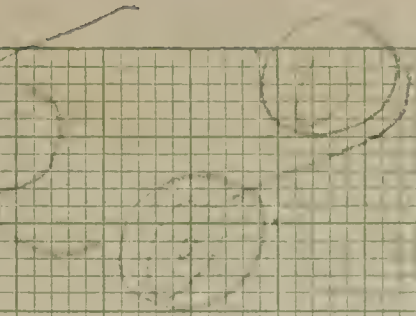


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middle

you

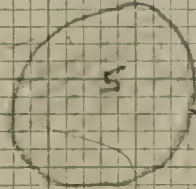
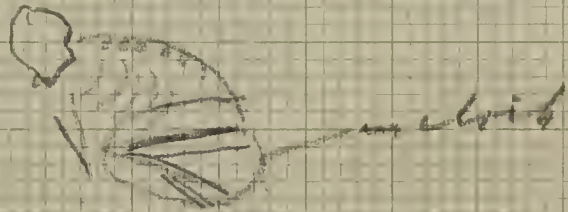
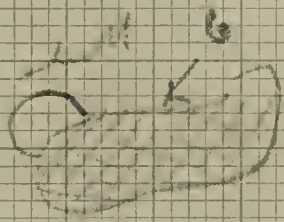
24  
23  
22  
21  
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18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1



hatched  
not

hatched 2 years

hatched 2 years



right side  
up with  
head inside  
2 birds -  
one in front  
in nest in  
strongest &  
all other birds  
partially fed  
with a variety of things

below 2  
showing 5 & 6

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

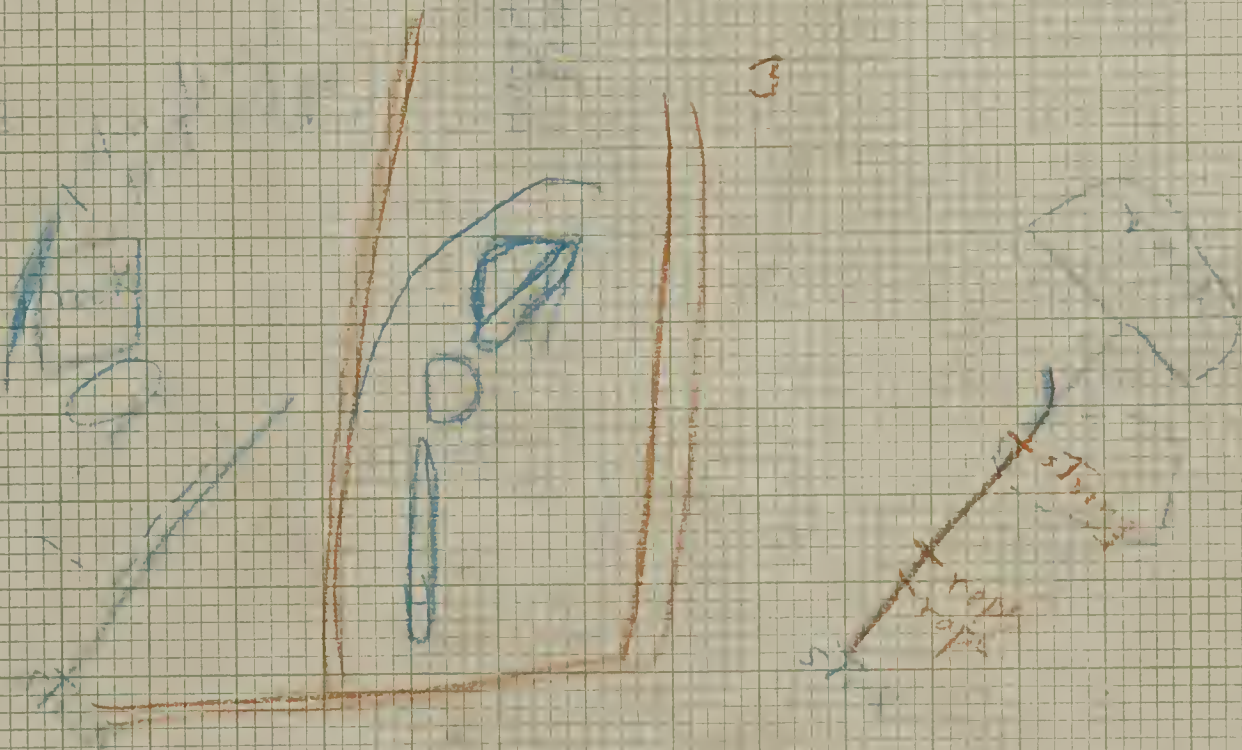
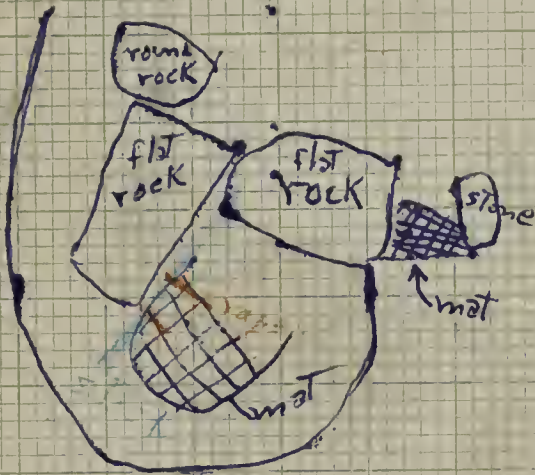




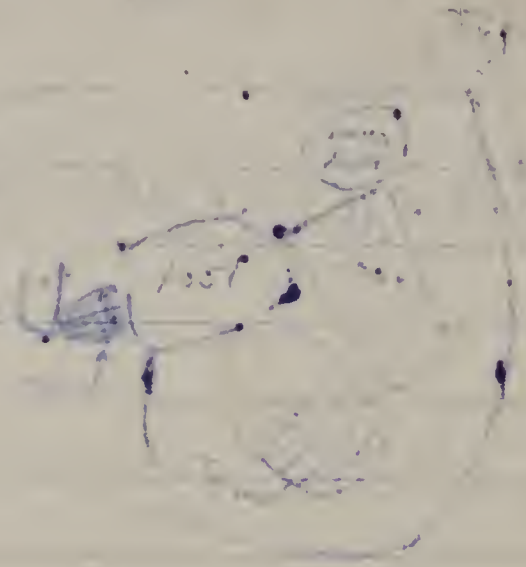


4 from Level 3

1 foot



~~Handwritten text, possibly a title or header, mostly illegible due to fading and bleed-through.~~







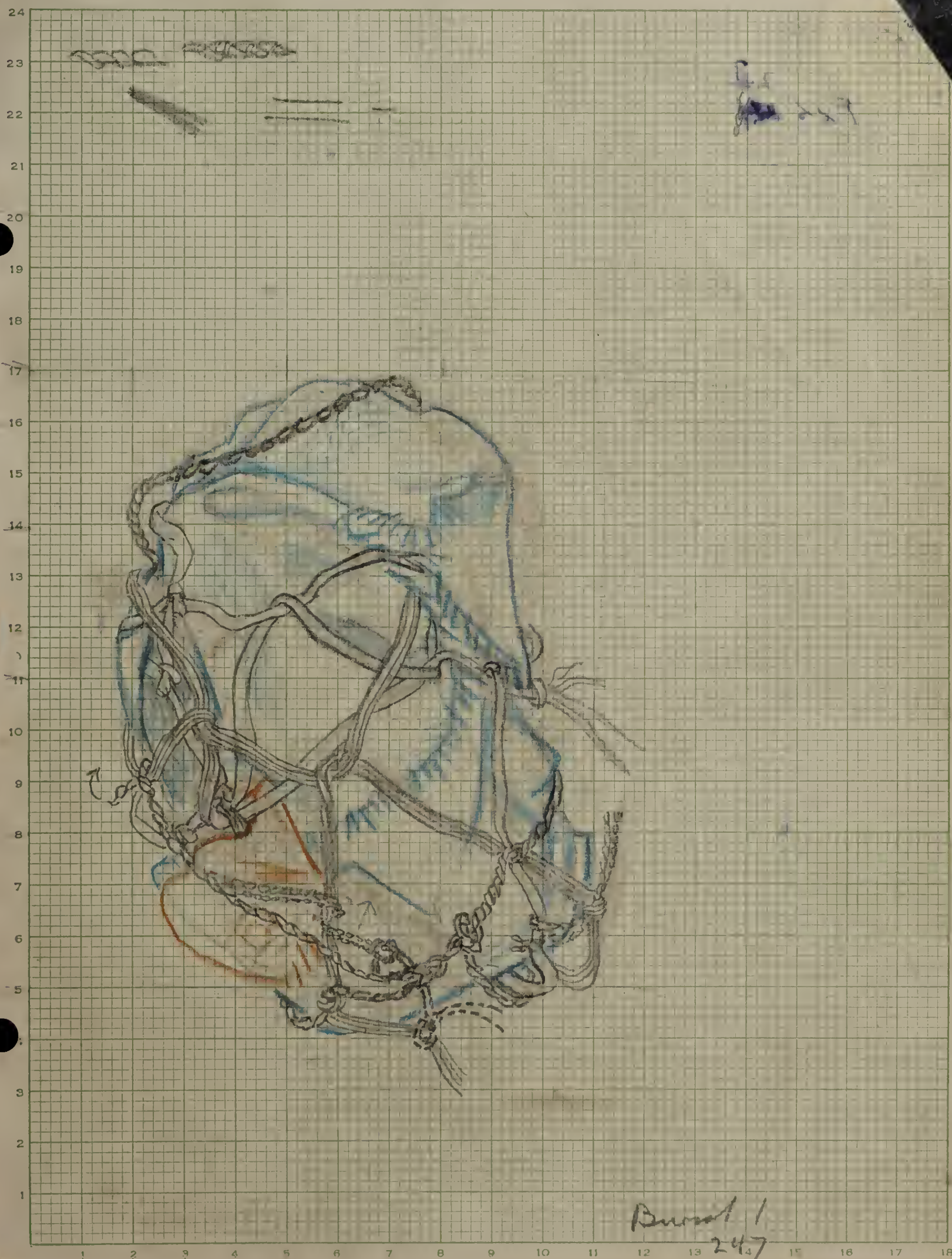
urnal 3 - from ~~level 4~~ (just below  
level 4

Mat covering body but not tied around it. Another  
mat under body and a bed of pachtli(?) (sp.?)  
between, going around where skull should have been.  
Articulated, flexed. Apparently put in without his head.

~~What Time is it?~~

10:07 - 5:00  
Local

• I think I have lost the tail of the previous talk  
(9:00) I think to have a line that states that  
I have not finished the whole house  
and I am not in the house yet. I have not finished  
the whole house yet.



Bureau 1  
247

Feb 23





Jesus

Tortillas	3 dias 2 9	—	27.00
Frijoles	—	—	27.00
Piloncillos			16.25
Blanqueados			3.00
Tortillas	5 dias 8.10		40.50
	10.80		54.00
Piloncillos			11.00
Lata	8 x 2 6		208.00
	8		8.00

208

394.75

11.25

383.50

~~Bonifacio~~

Santa Anna

Virginia

Bobicoapio

Bonifacio

Juan Gonzalez

Juan Montalvo

~~Doctor~~

TFSSMTWTFSSMT

11111111111111 (13 x 5)

13

14

23 days

14

3

= 65 - 65

= 28 - 58

30

= 28 - 58

35 - 58

= 108

14 x 5 = 70

364

31

Quintero



$$\begin{array}{r} 812 \\ 5 \\ \hline 4050 \end{array} -$$

$$\begin{array}{r} 10.80 \\ 5 \\ \hline 5400 \end{array}$$

7

23

$$\begin{array}{rclcl} 7 & \times & 4 & = & 28 \\ 16 & \times & 5 & = & 80 \\ \hline & & & & 108 \end{array}$$

2

53

$$\begin{array}{r} 108 \\ \times 2 \\ \hline 216 \end{array}$$



